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Your reference

P708226GB/DE

2. Patent application number (The Patent Office will fill in this part) 0230177.8

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Karo Bio AB Novum SE-141 57 Huddinge Sweden

Patent's ADP number (if you know it)

647787/007

If the applicant is a corporate body, give the country/state of its incorporation

Sweden

4. Title of the invention

LXR Beta Crystal

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Dr David ELSY WITHERS & ROGERS Goldings House 2 Hays Lane London SE1 2HW

Patents ADP number (if you know it)

1276001

8359929001

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Country

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Description

287

Claim(s)

Abstract 1

Drawing (s) 7

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Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

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I/We request the grant of a patent on the basis of this application.

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P708226GB



Protein Crystal

FIELD OF THE INVENTION

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the liver X receptor β (LXR β , NR1H2) and ligands for this receptor, and in particular to crystalline LXR β and to methods of identifying ligands utilizing LXR β , as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXR β modulating or binding activity.

BACKGROUND OF THE INVENTION

Liver X receptors are members of the superfamily of nuclear receptors. These transcription factors regulate target genes through a complex series of interactions with specific DNA response elements as well as transcriptional coregulators. The binding of ligand has profound effects on these interactions and has the potential to trigger both gene activation and, in some cases, gene silencing. There are about 50 sequence-related nuclear receptors in humans and the family comprises receptors that recognize hormones, both steroidal and non-steroidal, but also receptors responding to metabolic intermediates and to xenobiotics. There are also a number of so-called orphan receptors where the natural ligand is unknown. Some of the receptors show a very specific and high affinity ligand binding, like the thyroid hormone receptors, while others have a substantially lower affinity for their ligands and are also highly promiscuous in terms of ligand selectivity. Like many of the other non-steroid hormone receptors, LXR functions as a heterodimer with the 9-cis-retinoic acid receptor (RXR) to regulate gene expression. Together with PPARs and FXR LXRs represent a subclass of so called permissive RXR heterodimers. In this subclass, the RXR heterodimers can be activated independently by either the RXR ligand, the partner's ligand or synergistically by both.

LXRs consist of two closely related receptor isoforms encoded by separate genes – LXR α (NR1H3) and LXR β (NR1H2). As expected, the largest sequence differences are located in the N-terminal domain and in the so-called hinge region connecting the DBD and the LBD. LXR α shows tissue restricted expression with the highest mRNA levels detected in the liver and to a lesser extent in the kidney, small intestine, spleen and adrenal gland . In contrast, LXR β is ubiquitously expressed Both LXR isoforms have been shown to be activated by specific oxysterols that can be formed *in vivo* . Recently potent, non-steroidal synthetic ligands have been described. T0901317 , GW3965 and F3MethylAA all have binding IC50s around 10 nM.

Important insight into LXR biology has been obtained through the study of LXR deficient mice. Both LXRα and LXRβ knockout mice have been described. The LXRα null strain exhibits a striking inability to metabolize and excrete excess cholesterol when challenged with a high-cholesterol diet. The explanation appears to be an inability to up-regulate the rate-limiting enzyme in cholesterol conversion to bile acid, CYP7A, in response to the excess cholesterol. As a consequence, the conversion of cholesterol to bile-acid that would normally occur is blunted and cholesteryl esters deposit in the liver ultimately resulting in liver-failure. In contrast, the LXRB knockout strain maintains its natural resistance to a high cholesterol diet These important findings not only prove an important function of LXRa in rodent cholesterol metabolism, but also suggest that the LXR dependent regulation of CYP7A is LXR-subtype selective. The CYP7A LXR response element is not well conserved between rodents and man. LXRs are therefore not expected to be main regulators of cholesterol conversion to bile-acids in humans. This notion is supported by results from in vitro assays using cultured human cells. However, more recently, LXRs have been shown to regulate also several other genes involved in cholesterol and lipid homeostasis. Prominent examples are the phospholipid/cholesteryl ester transporter ABCA1, ABCG1 and the SREBP1c gene that, in turn, induces fatty acid synthesizing enzymes. Increasing insight into the involvement of LXRs in cholesterol and fatty acid homeostasis has led to considerable interest in LXRs as targets for drug development. As an example, one hallmark of atherosclerosis is the build-up of cholesteryl esters in

macrophages of the arterial wall, transforming the cells into so-called foam cells that, in turn are constituents of the atherosclerotic plaque. The potential to increase cholesterol efflux from macrophages/foam cells by inducing genes such as ABCA1 and /or G1 thereby preventing or even reversing the atherosclerotic process make LXRs highly interesting drug targets.

The inventor's understanding of how nuclear receptor ligands exert their effects has been dramatically enhanced by the elucidation of the crystal structures of the apo or liganded LBDs of several nuclear receptors. These structures have revealed a common, mainly α helical, fold unique for LBDs of nuclear receptors. It comprises a core layer of three helices (H5/6, H9 and H10) sandwiched between two additional layers of helices (H1-4 and H7, H8, H11 respectively). This arrangement creates a wedge shaped molecular scaffold that contains a wider upper part, which shows the highest degree of sequence conservation a between the LBDs. The narrower lower part is folded to form a hydrophobic cavity into which the ligand can bind. The remaining secondary elements, an antiparallel β-sheet comprising 2-4 strands and H12 (sometimes also referred to as the AF-2 domain) sits on each side of the ligand-binding cavity. The structures have revealed that ligands can affect the position of H12 so that an agonist puts H12 in a position allowing coactivator binding and preventing corepressor binding, while in an unliganded or antagonist bound receptor the coactivator binding site is blocked. Alternatively, the unliganded or antagonist bound receptor recruits corepressors. The binding modes of several of these coregulators have also recently been depicted in detail.

The present inventors have been able to produce LXR β crystals and to determine from that the three dimensional structure of the LXR β ligand binding domain (LBD).

SUMMARY OF THE INVENTION

The present invention refers to the crystallization of LXR β and determination of its crystallographic co-ordinates. Therefore, in a first aspect the present invention provides a LXR β ligand binding domain crystal.

In another aspect of the invention, methods for designing ligands which will bind to LXR β are provided. Such methods use three-dimensional models based on the crystals of the

LXRβ ligand-binding domain. Generally, such methods comprise, determining compounds which are likely to bind to the receptor based on their three dimensional shape in particular the ligand binding domain of the LXRβ. Preferably, such compounds have a structure that is complementary to the ligand-binding cavity of the LXRβ. Such methods comprise the steps of determining which amino acid or amino acids of the ligand-binding domain of the LXRβ interacts with the binding ligand, and selecting compounds or modifying existing compounds, to improve the interaction. Preferably, improvements in the interaction are manifested as increases in the binding affinity but may also include increases in receptor selectivity and/or modulation of efficacy.

Preferably, the ligands bind to the internal LXRβ binding cavity with a high binding affinity, for example within the range of 0.01–1000 nM.

The ligands may bind tightly to the LXR β yet not up-regulate gene expression thereby inhibiting the action of endogenous LXR β activators. Thus, the invention also provides a method of inhibiting the activity of endogenous LXR β activators by providing ligands that bind to LXR β with a high affinity, blocking the activity of the endogenous ligands. Alternatively, binding of the ligand to the LXR β may cause conformational changes to the LXR β inhibiting further binding thereto. The invention further provides a method of inhibiting the activity of endogenous LXR β ligands in an animal, the method comprising administering to the animal a ligand which binds to at least the LBD, of the LXR β with high affinity and blocks binding of further ligands to at least the LBD of the LXR β . Such ligands are potentially useful in, for example, the treatment of LXR β mediated diseases in humans. Preferably the ligands are identified by the method of designing ligands according to the invention.

DETAILED DESCRIPTION OF THE INVENTION

One aspect of the invention provides a crystal comprising at least 150 amino acid residues of the LXRβ-ligand-binding-domain. Preferably, the said-crystal-comprises at least 200 amino acid residues of LXRβ. More preferably, said crystal contains at least 250 amino

acid residues of LXR β . Most preferably, the said crystal comprises the entire LXR β amino acid sequence.

Preferably the crystal comprises the amino acid sequence shown as Leu-220 to Asp-458 most preferably Leu-220 to Glu-461 of a LXRβ ligand binding domain as shown in Figure 5 or an amino acid sequence having at least 95%, especially above 97, 98 or 99% identity to the sequence. This numbering is based on the full sequence of human LXRβ. Preferably, the crystal comprises the entire amino acid sequence shown in Figure 5.

Isolated protein consisting of the amino acid sequence listed for the crystals are also provided by the invention. The isolated protein may be used to produce the crystals.

The proposed structural identity (based on analogy to the estrogen receptor and thyroid hormone receptor) of parts of the LXR β ligand-binding domain is shown below, based on the amino acid numbering of the full LXR β .

Secondary motif	LXRβ residues
Helix-1	Thr-221 to Val-249
Helix-3	Ala-261 to Val-289
Helix-4	Gly-291 to Gln-294
Helix 5	Gly-296 to Thr-308
Helix 6	Thr-308 to Arg-319
Sheet-1	Tyr-320 to His-322
Sheet-2	Glu-325 to Phe-329
Sheet-3	Phe-333 to Ser-336
Helix-7	Ser-336 to Ala-343
Helix-8	Gln-346 to Gly-364
Helix-9	Asp-366 to Ser-380
Helix-10	Pro-389 to Ile-409
Helix-11	Asp-414 to Gln-445
Helix-12	Pro-450 to Ile-456

An embodiment of this aspect of the invention provides a crystal produced using a sequence including helix 12 of LXRβ. Preferably this is between Pro450 to Ile-456.

The crystals according to the invention may be usable in X-ray crystallography.

In another embodiment of the present invention there is provided a LXR β crystal as described above also including a ligand bound to LXR β or a portion thereof. Said ligand may be selected from T0901317

(N-(2,2,2-trifluoroethyl)-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]-benzenesulfonamide, CAS # [293754-55-9]; WO 00/54759), G-W-3965

(3-(3-(2-chloro-3-trifluoromethylbenzyl-2,2-diphenylethylamino)propoxy)phenylacetic acid, CAS # [405911-09-3]; Collins, Jon L.; et al. *J. Med. Chem.* (2002), 45(10), 1963-1966), 24(S),25-epoxycholesterol (CAS # [77058-74-3]),

N-[1-(2-furanyl)ethyl]-N-4-pyridinyl-tricyclo[3.3.1.13,7]decane-1-carboxamide (CAS # [355833-66-8], WO-01/60818) or any other ligand that binds with reasonably affinity (<1000 nM) to the internal LXRβ binding cavity. The T0901317, G-W-3965 or any other ligand may be used with a coactivator ligand such as T1F2 NR-box 1.

In another embodiment of the present invention there is provided a crystal of LXR β LBD belonging to the space group P2₁2₁2₁ and having the unit cell dimensions a = 59 + /-3 Å, b = 100 + /-5 Å, c = 176 + /-3 Å, $\alpha = \beta = \gamma = 90^{\circ}$.

In another embodiment of the present invention there is provided a crystal of LXR β LBD belonging to the space group P6₁22 and having the unit cell dimensions a=59 +/-3 Å b=59+/-3 Å c=294 +/-3 Å, $\alpha = \beta = 90^{\circ}$, $\gamma = 120^{\circ}$.

In another embodiment of the present invention there is provided a crystal of LXR β LDB in complex with a coactivator peptide (such as a peptide corresponding to the first NR-box of TIF2 (Leers, Treuter et al 1998)) belonging to the space group P2₁2₁2 and having the unit cell dimensions a=89+/-3, b=91+/-3, c=131+/-3, $\alpha=\beta=\gamma=90^\circ$.

The crystals according to the invention may have a resolution as determined by X-ray crystallography of less than 3.6Å, preferably less than 2.9Å.

In another aspect of the present invention, there is provided a machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure as described above or a homologue of said crystal structure. Homologues include crystals with the same space group, but with another ligand, crystals with the same space group and substantially the same dimensions, and crystals using LXRβ from other species.

In yet another aspect of the present invention, there is provided a method for designing a potential LXR β ligand for the treatment of diseases modulated by the LXR β , the method comprising the steps of:

- (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXR β identified from a machine-readable storage medium as described above; and
- (b) analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site.

Preferably the method also comprises the steps of:

- (c) synthesizing the potential LXR β ligand based on the crystal structure of the LXR β ; and
- (d) assaying the LXRβ ligand for LXRβ binding, response in a LXRβ reporter cell line, measuring one or more in vivo effects including but not limited to

lesion area of fatty streaks in the aortic root, lipoprotein profile and serum triglyceride levels.

The method may alternatively provide the steps of:

synthesising the potential LXR β ligand based on the crystal structure of said receptor; and

assaying the LXRβ ligand binding response in a LXRβ reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXRβ ligand may be used for treatment of diseases modulated by LXRβ.

The LXR response element may be provided within, for example, a suitable plasmid containing the response element, reporter gene and suitable termination sequences. The reporter gene will be arranged so that expression of it is under the control of the response element.

Suitable vectors include, but are not limited to, bacterial or eukaryotic vectors such as plasmids or cosmids, phage vectors such as lambda phage, viral vectors such as adenoviral vectors or baculoviral vectors, and other vectors known in the art.

The vector preferably comprises suitable regulatory sequences to allow the nucleic acid molecule of the invention to be expressed in a suitable host cell to produce protein encoded by the nucleic acid molecule. Typically, the vector comprises a suitable promoter and terminator sequences, or other sequences such as poly A sequences, operably linked to the nucleic acid molecule. Such regulatory sequences are well known in the art.

The vector may also comprise a gene to allow the vector to be selected within a cell, such as an antibiotic resistance gene or a nutritional gene. Such genes are well known in the art.

The reporter gene is preferably Green Fluorescent Protein (GFP), which is known in the art. This fluoresces and enables the position of the kinase to be identified.

A further reporter system which may be used is lacZ gene from E.coli. This encodes the β -galactosidase enzyme. This catalyses the hydrolysis of β -galactoside sugars such as lactose. The enzymatic activity in cell extracts can be assayed with various specialised substrates, for example X-gal, which allow enzyme activity quantitation using a spectrophotometer, fluorometer or a luminometer.

Alternatively, the reporter gene may be secreted alkaline phosphatase. This is a secreted enzyme which may be assayed from a supernatent by methods known in the art.

Luciferase, another known reporter gene, may be used. This is derived from the firefly (*Photinus pyralis*). It catalyses a reaction using D-luciferin and ATP in the presence of oxygen and Mg²⁺ to produce light emission. The amount of light produced, and hence the amount of reporter gene produced under the control of the reporter element, may then be quantified.

The inventors have also identified that helix-12 of LXR β plays a key role in determining the efficacy (agonism v. antagonism) of a ligand.

Accordingly, preferably the method includes the step of modifying the potential LXR\$ ligand so that it:

- (a) sterically displaces helix-12; or
- (b) disrupts the dimerisation surface.

The dimerisation interface has been identified as helices H10 and H11.

In yet another aspect of the present invention, there is provided a method of designing a ligand which will bind to LXR β comprising comparing the shape of a compound with the shape of the ligand binding cavity of LXR β as obtained from a crystal according to the invention, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.

In yet another aspect of the present invention, there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues 200 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

In a preferred embodiment of this aspect there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

A further aspect of the invention provides crystallisable compositions comprising at least 250 amino acid residues of the LXRβ ligand-binding domain.

A further aspect of the invention provides a method of using the crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
- (c) detecting the binding of potential ligand for the ligand binding domain Preferably, a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXRβ than that of a standard ligand for the ligand binding domain of LXRβ. Alternatively, potential drugs may be selected by looking for those from a number of potential drugs with the greatest binding affinity.

Preferably the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.

The method may further comprise:

- (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXRβ and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;
- (e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;
- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as a drug when it inhibits or enhances the expression of protein synthesis in the cell.

The method preferably comprises an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.

The invention also provides a method of using a crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXRβ;

(c) detecting a measure of a cDNA or protein expression; wherein a potential ligand that regulates the expression of protein expression is selected as a potential drug.

Such cDNA or protein expression assays are themselves known per se in the art. Preferably the assay is in vitro.

Computers for producing a 3D representation are also provided, the representation being of:

- (a) a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by the structure coordinates of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
- (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
- (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to any one of the co-ordinate tables;
- (ii) a working memory of storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computer-readable data storage medium for processing and computer-machine readable data into said three-dimensional representation; and

(iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.

Preferably the computer produces a 3D representation of:

- (a) a molecule or molecular complex defined by structure coordinates of all of the LXR β ligand binding domain amino acid residues set forth in the co-ordinate tables; or
- (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in any one of the co-ordinate tables.

The invention also provides methods for determining the 3D structure of a complex between LXR β and a ligand, therefore, which comprises:

- (a) obtaining x-ray diffraction data for crystals of the complex; and
- (b) utilizing a set of atomic coordinates a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.

A still further aspect of the invention provides a method for determining a modelling structure of a protein containing LXR β or a complex of said protein and a ligand, which method comprises:

- (a) providing a three-dimensional structure defined by a set of coordinates or a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR β using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

The term "rational drug design", as used herein, is defined as the designing of drugs for specific purposes, such as the binding to a predetermined receptor or the treatment of a predetermined disease. Examples include the designing of a drug to specifically bind and/or modulate nuclear hormone receptor binding, and the design of drugs to prevent or treat atherosclerosis. This is based upon the knowledge of molecular properties such as binding modes and interaction of the drug to its receptor as revealed by x-ray crystallography; the contribution of various functional groups contained in the drug to the affinity and specificity of the binding of the drug to its target; molecular geometry and electronic structure of drug and its target; and an information catalogued on analogous drug molecules. Such drug design is usually based on computed-assisted modelling and does not usually include pharmacokimetics, dosage analysis or drug administration analysis.

Computer modelling is the theoretical representation of data that simulates the behaviour or activity of systems, processes or phenomena. This includes the use of mathematical equations, computers and other electrical equipment. In the context of drug design, computer modelling allows the simulation of the strength of interaction between a drug conclictal and its target receptor.

Isolated proteins consisting essentially of the LBD of LXR β , vectors encoding such proteins and host cells are also provided. the isolated protein may be attached to a tag, such as a his-tag.

Drug candidates are potential drugs. That is, they include compounds which have initial indications that they will have potential clinical use or activity.

The term "supplemental crystal" refers to a second, additional, crystal complexed with a further, different LXR β ligand.

The term "standard ligand" refers to a known, characterised, ligand.

STRUCTURE BASED DESIGN OF LXR LIGANDS

The present invention elucidates the structure of the ligand-binding cavity of LXRβ. Knowledge of the structure of this cavity has utility in the design of structurally novel LXRβ ligands and in the design of non-obvious analogues of known LXRβ ligands with improved properties. These enhanced properties include one or more of the following: (1) higher affinity, (2) improved selectivity for LXRβ vs. related nuclear hormone receptors and/or (3) a designed degree of efficacy (agonism vs. partial agonism vs. antagonism). Without knowledge of the LXRβ structure, modifications to produce ligands with enhanced properties and a reasonable likelihood of success would not be available to those skilled in the art. The LXRβ structure also has utility in the discovery of new, structurally novel classes of LXRβ ligands. Electronic screening of large, structurally diverse compound libraries such as the Available Chemical Directory (ACD) will identify new structural classes of LXRβ ligands which will bind to the 3-dimensional structure of the LXRβ. Additionally the LXRβ structure allows for "reverse-engineering" or "de novo design" of compounds to bind to LXRβ.

(1) Enhanced Affinity

The present invention has revealed the size and shape of the interior binding cavity for representative LXR β ligands T0901317 and GW-3965. The sizes and shapes of the cavities were delineated using the PASS program ("Fast Prediction and Visualization of Protein Binding Pockets With PASS"; G.P. Brady, Jr. and P.F.W. Stouten; J. Comp.-Aided Mol. Design, 14: 383-401, 2000). The interior binding cavity of LXR β /T0901317 complex is shown in **Figure 6** (left) and has the dimensions of 13.1 x 9.2 x 7.5 Å along the first, second, and third principle moments of inertia respectively. The interior binding cavity of LXR β /GW-3965 complex is shown in **Figure 6** (right) and has the dimensions of 17.0 x 11.9 x 8.0 Å along the first, second, and third principle moments of inertia respectively. In addition, this structure reveals a narrow "water-channel" adjacent to the cavity occupied by T0901317 and GW-3965.

Ligands which occupy as much of the interior binding cavities including the unoccupied "water-channels" as revealed by the LXRβ/T0901317 and LXRβ/GW-3965 complexes without sterically colliding with the receptor will provide ligands with higher affinity than either T0901317 or GW-3965.

The present invention has also revealed the presence of a histidine residue (His-435) which forms a very strong hydrogen bond with the acidic hydroxyl group of the ligand TO901317 [N ϵ – OC(CF₃)₂Ar) distance = 2.6 Å]. In addition, the sulfonyl oxygen atom of ligand TO901317 forms a weak hydrogen bond to the Ser-278 (O γ – O=S=O distance = 4.1 Å). New ligands which preserve the strong hydrogen bond by an appropriately placed acidic hydrogen atom to interact with the N ϵ atom of His-435 and in addition place a hydrogen bond donating group closer to the O γ atom of Ser-278 will show enhanced affinity for LXR β relative to TO901317.

The present invention also reveals that there are a number of unsatisfied hydrogen bond partners in the ligand binding cavity (see Figure 7). These include the backbone carbonyl group of Phe-271 and the sidechain Oγ atoms of Thr-272 and Thr-316. Introduction of appropriately positioned hydrogen bond donating substituents on the ligand which form strong hydrogen bonds to one or more of these three hydrogen bond accepting groups in the receptor binding cavity will serve to enhance affinity.

The ligands produced in accordance with the invention bind more effectively to the LXR β than TO901317. The ligand may bind with twice the binding affinity of TO901317, preferably three times the affinity, and most preferably ten or more times the affinity.

Preferably, the ligand produced in accordance with the invention occupies as much of the interior binding cavities of LXR β as revealed by the LXR β /T0901317 and LXR β /GW-3965 complexes without perturbing the remainder of the LXR β structure.

Preferably, the ligand produced in accordance with the invention also forms a hydrogen bond with the NE atom of His-435 and at least one additional hydrogen bond to either

Phe-271 (backbone carbonyl group), Thr-272 (O γ), Ser-278 (O γ), or Thr-316 (O γ) of LXR β without perturbing the remainder of the LXR β structure.

(2) Improved Selectivity

The LXR\$\beta\$ receptor is very closely related to the LXR\$\alpha\$ and relatively closely related to the RXR, PXR, FXR, PPAR receptors. The RXR, PXR, FXR, PPAR receptors differ significantly in their primary sequence and slightly in their tertiary structure. As a consequence of these receptor differences, ligands may bind with different affinity to these four receptors.

The closest amino acid difference between LXR α and LXR β in the vicinity of the bound ligand is Ala-294(α)/Thr-308(β). This is in turn next to Met-298(α)/312(β) which directly lines the binding cavity. Rotation about the χ_3 sidechain of to Met-298(α) is more facile in LXR α than in LXR β due to the presence of the smaller Ala-294(α) residue. Therefore subsituents from the ligand which push on Met-298(α) will afford ligand that are selective for LXR α over LXR β .

Furthermore, a detailed understanding of the different receptors enables the different behaviour of a compound in different tissues to be understood, for example the selective liver X receptor modulators (SLXRMs) on the tissue in which it is active. LXR α and LXR β have different tissue distributions and therefore ligands which display LXR isoform binding selectivity will also display tissue selectivity.

The present invention provides new ligands which exploit these differences by positioning ligand substituents in close proximity to one or more amino acid residue that differ between LXR β and RXR, PXR, FXR, PPAR.

The ligands produced in accordance with the invention bind more effectively to the LXR β receptor than to the RXR, PXR, FXR, or PPAR receptor. The selectivity of the binding to the LXR β receptor may be tenfold, more preferably one hundred-fold, and most preferably greater than one thousand-fold.

(3) Modulation of Efficacy

This invention provides an understanding of the differences between LXRB agonist and antagonist binding and therefore a means to design LXRB ligands with the desired degree of efficacy. An examination of the differences between the ERa/estradiol (agonist; PDB accession code: 1ERE) and ERβ/raloxifene (agonist; PDB accession code: 1ERR) complexes reveals a large movement in Helix-12. H12 adopts an "agonistic" conformation defined by the structure of the ERa/estradiol complex and an "antagonistic" conformation defined by the structure of the ERB/raloxifene complex. These two conformations are in thermodynamic equilibrium. When the ER is complexed with a full agonist, such as estradiol, the equilibrium lies far in the direction of the "agonistic" conformation. In contrast, while when complexed with an antagonist, the equilibrium is pushed in the direction of the "antagonistic" conformation. In the case of raloxifene ER ligand, the bulky side-chain collides with H12 in its agonistic conformation, thereby driving the equilibrium in the antagonistic direction. By introduction of progressively shorter side chains in raloxifene, the equilibrium will be gradually shifted back towards the agonist conformation. By analogy, replacement of one of the fluorine atoms of the hexafluoroisopropanol group of TO901317 will sterically collide with H12 in LXR8. Thus, this invention provides a means of developing ligands with the desired degree of efficacy (agonist, partial agonist, or antagonist).

In particular, the importance of H12 has been determined as playing a central role in determining the efficacy (agonism vs. antagonism) of a ligand. Thus, ligands which are able to bind to and/or alter the conformation of H12 are of particular importance when designing a ligand or assessing the binding of a ligand, for the LXR β receptor.

Additionally, it has been found that at least the majority of such receptor proteins when activated by binding to an agonist ligand are in the form a dimer (Khorasanizadeh S, Rastinejad F. 2001). Such dimerization leads to a potential route for disruption.

Disruptions of this type can be used to predict antagonism or to produce antagonists.

Disruptions may take the form of ligand binding which alters the conformation of the

helices that comprise the dimerization interface or direct binding to the dimerization interface which then inhibits dimerization.

Further, the orientation of the ligand may be keyed to the receptor, in the dimeric or monomeric form. Furthermore, using the crystals of the present invention, the influence of ligand binding to the LDB on the receptor conformation can now be shown to have influences on the behaviour of the receptor since it may disrupt the binding of co-activator, co-repressor, or heat-shock proteins. Previously, such predictions could not me made.

PRODUCTION OF LIVER X RECEPTOR β CRYSTALS AND THEIR APPLICATION

The present inventors have been able to isolate, differentiate and produce crystals for the liver X receptor β .

The crystal may be produced from a sequence comprising at least 250 amino acids, and preferably at least 200 amino acids of LXR β . More preferably, the sequence comprises at least a portion of the ligand-binding domain of LXR β . Alternatively, the sequence comprises the whole ligand-binding domain of LXR β .

Advantageously, the crystals have a resolution determined by X-ray crystallography of less than 3.6 Å and most preferably less than 2.9 Å.

The production of such crystals has enabled the three dimensional structure of the ligand binding domain of LXR β to be mapped. Use of such crystals in conjunction with the map enables a better understanding of how T0901317, GW3965 and other ligands bind to LXR β with precision. This technique can also enable the design of receptor selective LXR β agonists and antagonists since now the precise differences in the binding sites between LXR β and the closely related LXR α .

Crystals of the LXR\$\beta\$ ligand-binding domain can be used as models in methods for the design of synthetic compounds intended to bind to the receptor. Such models show why very slight differences in chemical moieties of a ligand potentially have widely varying

binding affinities. Hence, the three dimensional structure of the ligand binding domain can be used as a pharmaceutical model for compounds which bind to Liver X receptors.

Embodiments of the invention will now be described in more detail, by way of example, with reference to the accompanying drawing.

FIGURE LEGENDS

Figure 1. Cartoon view of the LXR β receptor with labeled helices.

Figure 2 shows representative portions of a 2.4Å resolution SigmaA weighted 2 Fobs-Fcalc map where Fobs are the observed and Fcalc are the calculated structure-factor amplitutes and 2Fobs-Fcalc is the difference Fourier synthesis electron density map in which model error is reduced and electron density at the chosen contour (mesh diagram) approximates the molecular surface for the LXRβ/GW3965 complex. The structure of GW3965 (tube diagram) is fitted to the experimental electron density (mesh diagram).

Figure 3. Superposition of the LXRβ/T0901317 (carbons black) and the LXRβ/GW3965 (carbons light grey) complexes reveal dramatic changes in the ligand-binding pocket.

Figure 4. Residues that are within hydrogen bond distance or van der Waals (4.2 Å) distance to the ligand are labeled. Dashed lines indicate hydrogen bonds and lines indicate Van der Waals interactions. These interactions are shown in (a) for the LXRβ/T0901317 complex, and in (b) for the LXRβ/GW3965.

Figure 5(a). Full length natural sequence of human LXRβ.

Figure 5(b). The crystallized protein sequence with the first four non-LXR β residues gshm and the remaining 213-416 originating from human LXR β .

Figure 6. Interior binding cavity of the LXR β /T0901317 complex (left) and LXR β /GW-3965 (right). The C α -trace of the protein is represented by solid line. The structure of the ligand T0901317 and GW-3965 ligands are represented by a ball-and-stick diagram. The binding cavity is represented by a transparent surface which is filled by PASS probe spheres (dots).

Figure 7. Unsatisfied hydrogen bonding partners (backbone carbonyl groups of Phe-266, Phe-271, Met-312 and side-chain hydroxyl groups of Thr-272, Thr-316) as revealed by the LXRβ/T0901317 complex. Structure of T0901317 is represented by a capped sticks figure surrounded by the interior binding cavity of the receptor (transparent surface). Key amino acid residues are represented by labeled capped-stick. Hydrogen bonding accepting sites on the surface of the receptor binding cavity are represented by solid surfaces.

DNA construction work

The human LXRβ sequence is publicly available with accession number P55055 (SwissProt.) (Shinar, D.M. et al. (1994)). A construct spanning Gly213-Glu461 with the addition of an N-terminal 6xHis tag was used in the present work. The His-tag was designed to be cleavable using thrombin.

Protein production

The protein was expressed in *Escherichia coli* BL21 StarTM (DE3) cells (Invitrogen) using the pET28a expression system. Fermentation was carried out in batch culture (2xLB medium, 22°C) and expression of the recombinant protein was induced by the addition of 0.55mM IPTG (isopropyl-\beta-D-thiogalactoside) at OD₆₀₀=5.0. After 4h of induction the cells were harvested by centrifugation. The cell pellet was resuspended and washed once with buffer (20 mM HEPES pH 8.0, 100 mM KCl, 10% glycerol and 2.5 mM monothioglycerol). Final cell pellet was frozen at -70°C.

40g cells were lysed by glass beadbeater (BioSpec Products, Inc.) in extract buffer containing 50 mM Tris, pH8.8, 250 mM NaCl, 10% glycerol and 1 mM PMSF. Soluble

protein extract were collected by centrifugation at 11000 rpm, 20 min in Sorvall RC-5B centrifuge (Du Pont-instrument AB), GSA rotor.

Protein purification

Crude LXR β was eluted from 25 ml Talon by 20 mM Tris, pH8.0, 100 mM imidazole. Further purification was achieved using anion-exchange chromatography (5 ml Hitrap Q FF ion exchange column, Amersham Bioscience), and applying a gradient from 0 to 250 mM NaCl, pH8.0, eluted LXR β . After thrombin cleavage, the final LXR β (6-7 mg) fraction was obtained by running 4% acryl amide native gel electrophoresis in Tris-Epps buffer system.

Protein quality analysis

To elucidate the homogeneity of LXRβ, throughout the purification samples were collected and run on SDS and native PAGE gels (Phast, Amersham Biosciences, Sweden). Reverse phase HPLC runs were performed on a Waters HPLC system (Waters, USA) at denaturing conditions. Typically, 100 ml sample was acidified by addition of 10% acidic acid (final concentration). A sample was injected and eluted in a 25-75% acetonitrile-water gradient in 0.1% triflouroacidic acid at 1 ml/min. The method proved to be very useful to reveal problems with ligand binding and LXRβ stability and for determine the concentration and LXRβ-ligand ratio.

Crystallization and data collection

Crystallization was carried out using the hanging drop vapour-diffusion technique. Both LXRβ-T0901317 and LXRβ-GW9365 crystals were grown from buffer containing 8.5% iso-propanol, 17% PEG 4000, 85 mM HEPES, pH7.5, and 15% Glycerol at room temperature. The first LXRβ/T0901317 crystals formed in the P6122 space group, with

a=b=58.7,c=293.8 and diffracted to better than 3 Å. In the same drops another crystal form

was later detected belonging to the P212121 space group. Before data collection, crystals were flash-frozen in the 100 K nitrogen gas stream of an Oxford cryostream700. Data was either collected with an MAR345 image plate detector using X-rays from a Rigaku H3R rotating anode generator + Osmic Confocal Max-Flux™ optics or with a ADSC Q4R CCD at Experimental Station ID14-4 at ESRF. The observed reflections where reduced, merged and scaled with MOSFLM, and Scala in the CCP4 package.

Structure determination and refinement

The structure was determined by molecular replacement methods with the CCP4 AmoRe program (Acta. Cryst. D50 (1994), pages 760-763), using an LXRβ homology model based on a thyroid hormone receptorβ structures (Protein Databank Accession Code 1NAX). A publicly available structure such as 1bsx.pdb, from the Protein Data Bank, could also have been used to create the model. The molecular replacement was done on the first 3 Å data of LXRβ/T0901317 crystallized in P6122 and revealed one monomer per asymmetric unit. The crystal packing along one of the 2-folds revealed that the protein formed a tight homodimer, which allowed us to use the homodimer to search the second crystal form P212121 that gave 2 homodimers in the asymmetric unit. Electron densities for the T0901317 ligand confirmed the solutions of the molecular replacement. Model building was done with O and refinement initially with CNX and later with the CCP4 Refmac program and manual rebuilding. The four monomer complexes where treated as single TLS groups in Refmac which gave more interpretable electron density maps and improved the R-factors substantially.

Table 1. Summary of data collection, processing and refinement.

Data collection Source In house ID14 EH4 ESRF Space group P212121 P212121 Unit cell parameters 58.7 58.7 b 103.3 98.9 c 176.0 175.8 Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438 Completeness (%) 99.9 (99.7) 98.5 (95.4)	Complex	LxRβ/T0901317	LxRβ/GW3965
Space group P212121 P212121 Unit cell parameters 58.7 58.7 b 103.3 98.9 c 176.0 175.8 Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438	Data collection		
Unit cell parameters a 58.7 58.7 b 103.3 98.9 c 176.0 175.8 Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438	Source	In house	ID14 EH4 ESRF
a 58.7 58.7 b 103.3 98.9 c 176.0 175.8 Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438	Space group	P212121	P212121
b 103.3 98.9 c 176.0 175.8 Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438	Unit cell parameters		
b 103.3 98.9 c 176.0 175.8 Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438			·
c 176.0 175.8 Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438	a	58.7	58.7
Resolution 2.8 Å 2.4 (2.4-2.53) (2.8-2.95Å) (2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438	b	103.3	98.9
(2.8-2.95Å) Observations Unique 27153 37733 Total 92460 129438	c	176.0	175.8
Observations Unique 27153 37733 Total 92460 129438	Resolution	2.8 Å	2.4 (2.4-2.53)
Unique 27153 37733 Total 92460 129438		(2.8-2.95Å)	
Total 92460 129438	Observations		
·	Unique	27153	37733
Completeness (%) 99.9 (99.7) 98.5(95.4)	Total	92460	129438
	Completeness (%)	99.9 (99.7)	98.5(95.4)
$\langle I \rangle / \langle \sigma(I) \rangle$ 7.6 (1.9) 8.8(3.5)	<i> / <σ(I)></i>	7.6 (1.9)	8.8(3.5)
Rsym % 8.4 (40.2) 5.0(21.8)	Rsym %	8.4 (40.2)	5.0(21.8)
Refinement	Refinement		
Rwork 19.5 (27.9) 20.7(21.8)	Rwork	19.5 (27.9)	20.7(21.8)
Rfree 26.2 (34.8) 26.3(29.6)	Rfree	26.2 (34.8)	26.3(29.6)
Number of atoms 7782 7673	Number of atoms	7782	7673
R.m.s deviation	R.m.s deviation		
Bonds (Å) 0.016 0.016	Bonds (Å)	0.016	0.016
Angles (°) 1.49 1.36	Angles (°)	1.49	1.36
Average B-factor 24.3 23.1	Average B-factor	24.3	23.1
(\mathring{A}^2)	(Ų)		

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CO-ORDINATE TABLE 1

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          HUMAN LXR BETA HORMONE RECEPTOR COMPLEXED WITH
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         2 KB008444/T0901317 COMPLEX
TITLE
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REMARK
       ATOMIC COORDINATES OF A CRYSTAL STRUCTURE
REMARK
        DEPOSITOR: MATHIAS FARNEGARDH (MATHIAS.FARNEGARDH@KAROBIO.SE)
REMARK
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        DEPOSITION DATE 5-SEP-2002
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        NOVUM, 141 57 HUDDINGE, SWEDEN
REMARK
REMARK IMPORTANT NOTE ##############
       THIS DATA WAS COLLECTED RAPIDLY ON AN HOME SOURCE (RIGAKU RU300)
REMARK
REMARK
       TO DECREASE THE AMOUNT OF LIGAND SPLITTING THE RESOLUTION IS DUE TO
REMARK
       THIS ONLY 2.9 A. IN ORDER TO TAKE ADVANTAGE OF THE HIGH RESOLUTION
       STRUCTURE OF THIS COMPLEX (WHERE THE LIGAND IS SPLIT BY XRAY RADIATION)
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       WAS THE HIGH RESOLUTION STRUCTURE 1xrb_KB008444_split.pdb USED AS THE
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        STARTING MODEL FOR THIS REFINEMENT INCLUDING ALL THE WATERS.
        THE DIFFERENCES BETWEEN THE TWO STRUCTURES ARE ONLY LOCATED AT THE N-S
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        SPLITTING POINT OF THE LIGAND.
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        THIS ENTRY CONTAINS THE COMPLETE CONTENT OF THE ASYMETRIC UNIT
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       THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON DENSITIES
       IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS
REMARK
        CHAIN A 220-253, 261-458
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REMARK
       A500 IS THE LIGAND
       CHAIN B 219-258, 261-458 (GLN219, LEU330 MODELLED AS ALA)
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       B500 IS THE LIGAND
       CHAIN C 220-243, 248-254, 259-458
REMARK
        C500 IS THE LIGAND
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REMARK
        CHAIN D 220-242, 249-252, 260-329, 333-443, 448-458
REMARK
        (PHE329 MODELLED AS ALA) D500 IS THE LIGAND
REMARK
        THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE GAPS IN THE
REMARK
        STRUCTURE ARE DUE TO UNINTERPRETABLE ELECTRONDENSITIES IN THESE
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        PARTICULAR REGIONS
HEADER
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COMPND
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        2 MOLECULE: LIVER X RECEPTOR BETA;
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        5 SYNONYM: LXRB;
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        3 REFINEMENT.
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        3.
            PROGRAM
                        : REFMAC 5.1.19
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            AUTHORS
                        : MURSHUDOV, VAGIN, DODSON
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             REFINEMENT TARGET : MAXIMUM LIKELIHOOD
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REMARK
 REMARK
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RESOLUTION RANGE LOW (ANGSTROMS): 40.00
DATA CUTOFF (SIGMA(F)): NONE
COMPLETENESS FOR RANGE (%): 99.91
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                NUMBER OF REFLECTIONS
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                                                              25718
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            3 FIT TO DATA USED IN REFINEMENT.
               CROSS-VALIDATION METHOD
                                                         : THROUGHOUT
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            3
                R VALUE
                                       (WORKING SET) : 0.19526
                FREE R VALUE
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                                                         : 0.26170
                 FREE R VALUE TEST SET SIZE (%): 5.1
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                 FREE R VALUE TEST SET COUNT
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            3
                                                        : 1381
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                BIN RESOLUTION RANGE HIGH
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 REMARK
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                BIN RESOLUTION RANGE LOW
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                REFLECTION IN BIN (WORKING SET) :
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                BIN R VALUE
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               NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
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                ALL ATOMS
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               B VALUES.
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            3
 REMARK
           3
 REMARK
           3
                OVERALL ANISOTROPIC B VALUE.
                B11 (A**2) : 0.01
 REMARK
 REMARK
           3
                B22 (A**2) :
                                      1.29
 REMARK
               B12 (A**2) :
B13 (A**2) :
B13 (A**2) :
B23 (A**2) :
                B33 (A**2) :
           3
                                    -1.30
 REMARK
           3
                                    0.00
 REMARK-
           3
                                     0.00
REMARK
           3
                                     0.00
REMARK
           3
               ESTIMATED OVERALL COORDINATE ERROR.
                ESU BASED ON R VALUE
REMARK
                                                                           (A): NULL
REMARK
                ESU BASED ON FREE R VALUE
           3
                                                                           (A): 0.410
REMARK
           3
                ESU BASED ON MAXIMUM LIKELIHOOD
                                                                           (A):
REMARK
                ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2): 15.914
REMARK
           3
REMARK
           3 CORRELATION COEFFICIENTS.
REMARK
                CORRELATION COEFFICIENT FO-FC
           3
REMARK
                CORRELATION COEFFICIENT FO-FC FREE:
REMARK
           3
REMARK
              RMS DEVIATIONS FROM IDEAL VALUES
           3
                                                              COUNT
                                                                         RMS
REMARK
           3
               BOND LENGTHS REFINED ATOMS
                                                (A): 7745; 0.016; 0.022
(A): 7177; 0.002; 0.020
(DEGREES): 10502; 1.490; 1.980
REMARK
           3
                BOND LENGTHS OTHERS
REMARK
                BOND ANGLES REFINED ATOMS
REMARK
                BOND ANGLES OTHERS
                                               (DEGREES): 16631; 0.842; 3.000
               TORSION ANGLES, PERIOD 1 (DEGREES): 908; 5.804; 5.000 CHIRAL-CENTER RESTRAINTS (A**3): 1189; 0.074; 0.200 GENERAL PLANES REFINED ATOMS (A): 8385; 0.005; 0.020 GENERAL PLANES OTHERS (A): 1612; 0.002; 0.020
REMARK
REMARK
REMARK
REMARK
           3
               GENERAL PLANES OTHERS
(A): 1612; 0.002; 0.020
NON-BONDED CONTACTS REFINED ATOMS (A): 1833; 0.215; 0.200
NON-BONDED CONTACTS OTHERS
(A): 8222; 0.224; 0.200
REMARK
REMARK
```

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NON-BONDED TORSION OTHERS
H-BOND (X...Y) REFINED ATOMS
(A): 4710 ; 0.088 ; 0.200
(A): 208 ; 0.180 ; 0.200
REMARK
REMARK
          3
                                                (A): 20; 0.205; 0.200

(A): 81; 0.243; 0.200

(A): 11; 0.126; 0.200
              SYMMETRY VDW REFINED ATOMS
REMARK
          3
              SYMMETRY VDW OTHERS
REMARK
              SYMMETRY H-BOND REFINED ATOMS
REMARK
REMARK
          3
          3 ISOTROPIC THERMAL FACTOR RESTRAINTS.
                                                       COUNT RMS
REMARK
                                                                       WEIGHT
            MAIN-CHAIN BOND REFINED ATOMS (A**2): 4613; 0.581; 1.500
REMARK
              MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 7458; 1.145; 2.000
REMARK
              SIDE-CHAIN BOND REFINED ATOMS (A**2): 3132; 1.659; 3.000
REMARK
          3
REMARK
              SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 3044; 3.050; 4.500
          3
REMARK
          3
REMARK
             NCS RESTRAINTS STATISTICS
              NUMBER OF NCS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
REMARK
          3 TLS DETAILS
              NUMBER OF TLS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
          3 BULK SOLVENT MODELLING.
REMARK
REMARK
          3
             METHOD USED: BABINET MODEL WITH MASK
              PARAMETERS FOR MASK CALCULATION
REMARK
          3
          3
REMARK
              VDW PROBE RADIUS : 1.40
REMARK
          3 ION PROBE RADIUS
                                 :
                                      0.80
              SHRINKAGE RADIUS
REMARK 3
                                      0.80
REMARK
REMARK
REMARK
REMARK
          3
          3 OTHER REFINEMENT REMARKS:
3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
          3
                  PRO A 253
LINK
                                                 ALA A 261
                                                                            gap
                 PRO B 258
                                                 ALA B 261
LINK
                                                                            gap
                PHE C 243
                                                 LYS C 248
LINK
                                                                            gap
                                                 GLN C 259
                ALA C 254
LINK
                SER D 242
LINK
                                                 VAL D 249
LINK
LINK
LINK
                  TRP D 252
                                                 ALA D 260
                                                                            gap
                  ALA D 329
                                                 PHE D 333
                                                                            gap
                  ARG D 443
                                                 LYS D 448
                                                                            gap
CRYST1 58.722 103.262 176.002 90.00 90.00 90.00 P 21 21 21
         0.017029 0.000000 0.000000 0.00000
0.000000 0.009684 0.000000 0.00000
0.000000 0.000000 0.005682 0.00000
 SCALE1
SCALE2
                                                                                 N
                                                                                 C
                                                                                 C
                                                                                 C
                                                                                 C
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						•			
ATOM	45	0	ALA	A 222		-2.431	9.165	60	1 00
ATOM	46	N		A 223		-1.010	9.854	62.664	1.00 16.24
ATOM	48	CA	ALA	A 223		-1.606	11.168	64.251 64.343	1.00 15.26
MOTA	50	CB		A 223		-1.026	11.901	65.538	1.00 15.26
ATOM	54	С		A 223		-1.397	11.968		1.00 15.52
MOTA	55	0		A 223		-2.247	12.750	63.046	1.00 15.37
ATOM	56	N	GLN	A 224		-0.264	11.767	62.660	1.00 14.83
ATOM	58	CA	GLN	A 224		-0.005	12.423	62.381	
ATOM	60	CB		A 224	•	1.479	12.350	61.108	1.00 16.16
ATOM	63	CG		A 224		2.383	13.329	60.734	1.00 16.24
ATOM	66	CD	·GLN	A 224		3.857	13.329	61.487	1.00 15.36
ATOM	67	OE:	l GLN	A 224		4.276		61.233	1.00 13.69
ATOM	68	NE	2 GLN	A 224		4.642	11.933 14.144	61.080	1.00 11.58
ATOM	71	С		A 224		-0.856	11.847	61.171	1.00 12.35
ATOM	72	0		A 224		-1.344	12.586	59.987	1.00 16.83
ATOM	73	N-		A 225		-1.044	10.541	59.155	1.00 17.50
ATOM	75	CA		A 225		-1.918	9.962	59.944	1.00 17.54
ATOM	77	CB	GLU	A 225		-1.919		58.938	1.00 18.71
MOTA	80	CG	GLU	A 225		-0.583	8.421 7.718	58.996	1.00 19.80
ATOM	83	CD		A 225		-0.739			1.00 22.22
ATOM	84	OE1		A 225		-1.896	6.189	58.646	1.00 27.82
ATOM	85	OE2	GLU 2	A 225		0.279	5.694	58.806	1.00 29.83
ATOM	86	С	GLU	A 225		-3.326	5.463	58.427	1.00 29.75
ATOM	87	ō		A 225		-3.972	10.487	59.160	1.00 18.57
ATOM	88	N		A 226		-3.788	10.912 10.489	58.236	1.00 18.55
ATOM	90	CA		A 226		-5.087	11.076	60.401	1.00 19.06
ATOM	92	СB		A 226		-5.351	11.078	60.747	1.00 19.53
ATOM	95	CG	LEU 2	A 226		-6.612	11.759	62.260	1.00 19.76
MOTA	97	ĊD1		A 226		-7.866	11.739	62.761	1.00 19.44
MOTA	101	CD2				-6.676	11.739	62.149	1.00 20.78
MOTA	105	С		226		-5.283	12.516	64.269	1.00 18.94
MOTA	106	0	LEU A	226		-6.391	12.892	60.326	1.00 19.84
MOTA	107	N	MET A	227		-4.260	13.348	59.964 60.435	1.00 20.69
ATOM	109	CA		227		-4.448	14.759	60.435	1.00 20.12
ATOM	111	CB		227		-3.305	15.603	60.126	1.00 20.67
ATOM	114	CG	MET A	227		-2.751	16.682	59.708	1.00 21.19
ATOM	117	SD		227		-1.252	17.480	60.399	1.00 23.98
ATOM	118	CE		227		-1.757	17.793	62.100	1.00 30.33
ATOM	122	С	MET F			-4.578	14.927	58.616	1.00 29.41
ATOM	123	0	MET A			-5.464	15.629	58.148	1.00 20.11
ATOM	124	N	ILE A			-3.705	14.257	57.878	1.00 20.30
ATOM	126	CA	ILE A			-3.665	14.351	56.445	1.00 19.29 1.00 19.09
ATOM	128	CB	ILE A	228		-2.382	13.726	55.921	
ATOM	130	CG1		228		-1.179	14.615	56.251	
ATOM	133	CD1	·ILE A	228		0.158	13.963	55.932	1.00 19.28 1.00 19.23
ATOM	137	CG2	ILE A	228		-2.494	13.479	54.411	1.00 19.23
ATOM	141	С	ILE A			-4.863	13.670	55.794	
ATOM	142	0	ILE A	228		-5.418	14.211	54.868	1.00 19.43 1.00 20.34
ATOM	143	И	GLN A	229		-5.256	12.477	56.223	1.00 20.34
ATOM	145	CA	GLN A			-6.478	11.882	55.706	1.00 18.96
ATOM	147	CB	GLN A	. 229		-6.771	10.577	56.413	1.00 19.24
ATOM	150	CG	GLN A	. 229		-6.067		55.768	1.00 13.24
ATOM	153	CD	GLN A	229		-6.010	8.229	56.651	1.00 21.27
ATOM	154	OE1	GLN A	229		-6.948	7.971	57.423	1.00 25.47
ATOM	155	NE2	GLN A	229		-4.905	7.479	56.560	1.00 25.47
ATOM	158	C	GLN A	229		-7.702	12.769	55.845	1.00 23.45
ATOM	159	0	GLN A			-8.583	12.732	55.011	1.00 18.33
ATOM	160	N	GLN A			-7.744	13.532	56.930	1.00 18.60
ATOM	162	CA	GLN A			-8.860	14.389	57.301	1.00 18.80
ATOM	164	CB	GLN A			-8.659	14.919	58.749	1.00 19.79
ATOM	167	CG	GLN A	230		-9.251	16.327	59.108	1.00 21.29
				•					

ATOM	170	CD	GLN	7	230	-10.690	16 220	E0 E31	1 00	04.64	_	
ATOM	171		GLN			-11.138	16.230	59.571		24.64		С
ATOM	172	NE2	GLN			-11.136	15.164	59.996		25.60		0
							17.336	59.477		28.35		N
MOTA	175	C	GLN			-8.945	15.538	56.342		18.30		С
ATOM	176	0	GLN			-10.029	15.844	55.865		18.40		0
ATOM	177	N	LEU			-7.800	16.196	56.106	1.00	17.65		N
ATOM	179	CA	LEU			-7.691	17.326	55.185	1.00	17.02		С
ATOM	181	CB	LEU			-6.276	17.900	55.178	1.00	17.01	(С
MOTA	184	CG	LEU	Α	231	-5.827	18.554	56.489	1.00	17.61	(С
ATOM	186	CD1	LEU	Α	231	-4.435	19.164	56.398	1.00	17.30	(С
ATOM	190	CD2	LEU	Α	231	-6.815	19.591	56.908	1.00	18.68	(С
ATOM	194	С	LEU	A	231	-8.079	16.910	53.787		16.54	Č	C
ATOM	195	0	LEU			-8.848	17.571	53.144		16.65		ŏ
ATOM	196	N	VAL			-7.589	15.776	53.337		16.28		N
ATOM	198	CA	VAL			-7.975	15.264	52.034		16.26		C
ATOM	200	CB	VAL			-7.091	14.080	51.598		16.22		<u></u>
ATOM	202		VAL			-7.585	13.491	50.281				C
ATOM	206		VAL							15.39	(C
						-5.639	14.571	51.447		16.49	. (C
ATOM	210	C	VAL			-9.463	14.925	51.955		15.99		С
ATOM	211	0	VAL			-10.106	15.228	50.942		15.95		0
ATOM	212	N	ALA			-10.010	14.319	53.006		15.67		N
ATOM	214	CA	ALA			-11.416	13.939	53.011		15.76	(С
ATOM	216	CB	ALA			-11.722	13.041	54.167		15.74		С
ATOM	220	C	ALA			-12.328	15.169	53.046	1.00	16.33	(С
ATOM	221	0	ALA	A	233	-13.417	15.150	52.468	1.00	15.95		0
ATOM	222	N	ALA	Α	234	-11.893	16.231	53.720	1.00	16.96		N
ATOM	224	CA	ALA	A	234	-12.667	17.465	53.756		17.94		С
MOTA	226	CB	ALA	A	234	-12.205	18.373	54.910	1.00	18.20	(Ċ
ATOM	230	С	ALA			-12.598	18.207	52.407		18.44	Č	c
ATOM	231	0	ALA			-13.595	18.714	51.965		18.63		ō
ATOM	232	N	GLN			-11.438	18.261	51.762		19.00		N
ATOM	234	CA	GLN			-11.303	18.837	50.425		20.04		C
ATOM	236	CB	GLN			-9.856	18.674	49.997		20.79		c
ATOM	239	CG	GLN			-9.379	19.327	48.715		24.06		C
ATOM	242	CD	GLN			-7.796	19.466	48.697		30.93		<u></u>
ATOM	243	OE1	GLN			-7.021	18.452	48.747				C
ATOM	244	NE2	GLN			-7.336				31.11		0
ATOM	247	C	GLN				20.724	48.634		34.09		N
						-12.213	18.115	49.435		19.95		С
ATOM	248	0	GLN			-12.927	18.720	48.655		19.27		0
ATOM	249	N	LEU			-12.199	16.800	49.490		20.56		N
ATOM	251	CA	LEU			-13.036	16.017	48.616		21.32	(С
ATOM	253	СВ	LEU			-12.757	14.522	48.786		21.67	(С
MOTA	256	CG	LEU	A	236	-13.341	13.700	47.626		24.13	(С
ATOM	258		LEU			-12.335	13.718	46.450		25.57		С
ATOM	262		LEU			-13.777	12.237	48.015		25.18	(C
ATOM	266	С	LEU			-14.518	16.309	48.845	1.00	21.68	(C
ATOM	267	0	LEU			-15.252	16.390	47.872	1.00	22.07		0
ATOM	268	N	GLN	Α	237	-14.958	16.451	50.105	1.00	21.96		N
ATOM	270	CA	GLN	A	237	-16.373	16.687	50.431		22.24		C
MOTA	272	CB	GLN	A	237	-16.683	16.470	51.923		22.91	Č	Č
ATOM	275	CG	GLN	Α	237	-16.664	14.997	52.379		26.71	Č	Ċ
ATOM	278	CD	GLN			~16.470	14.773	53.913		30.99	Č	Č
ATOM	279	OE1	GLN			-16.674	13.640	54.381		33.33		ŏ
ATOM	280	NE2	GLN			-16.075	15.829	54.678		31.61		N
MOTA	283	C	GLN			-16.746	18.097	50.095		21.57		C
ATOM	284	ŏ	GLN			-17.875	18.381	49.779		21.64		
ATOM	285	N	CYS			-15.803	19.001	50.189		21.84		0
ATOM	287	CA	CYS			-16.106	20.382	49.933				N
ATOM	289	CB	CYS			-14.933	21.268			21.90	(C
ATOM	292	SG	CYS			-15.030	21.765	50.319		22.20		C
ATOM	293	C	CYS			-16.385	20.508	52.027		21.86	\$	S
-11-011					230	10.303	20.308	48.468	1.00	22.29	(С
												

ATOM ATOM	294	O CYS A 238	-17.288	3 21.221	48.050	1.00 21.90
ATOM	295	N ASN A 239		19.792		
ATOM	297	CA ASN A 239		19.869		42.30
ATOM		CB ASN A 239				
ATOM		CG ASN A 239			44.128	1.00 25.70
ATOM		OD1 ASN A 239			43.188	
ATOM	304	ND2 ASN A 239 C ASN A 239				1.00 27.04
ATOM					45.802	1.00 23.69
ATOM						1.00 24 39
ATOM		N LYS A 240 CA LYS A 240			46.354	1.00 23.59
ATOM		CB LYS A 240			46.030	1.00 23.52
. ATOM		CG LYS A 240			46.843	1.00 23.44
ATOM		CD LYS A 240				1.00 24.05
ATOM		CE LYS A 240				
ATOM		NZ LYS A 240	-20.932 -21.540		46.622	
ATOM		C LYS A 240	-19.799		47.847	
ATOM		O LYS A 240	-20.731		46.338	1.00 23.67
ATOM		N ARG A 241	-19.740		45.562	1.00 23.66
MOTA		CA ARG A 241	-20.796		47.490	1.00 24.06
ATOM		CB ARG A 241	-20.450		47.995	1.00 24.47
ATOM '	338 (CG ARG A 241	-21.613	20.278 20.328	49.431	1.00 24.96
ATOM	341 (CD ARG A 241	-21.267	20.328	50.388	1.00 25.97
ATOM.	344 n	NE ARG A 241	-22.165	22.017	51.747	1.00 27.73
ATOM		CZ ARG A 241	-23.486	21.893	52.101 52.299	1.00 28.90
ATOM		NH1 ARG A 241	-24.108	20.712	52.299	1.00 30.39
ATOM		NH2 ARG A 241	-24.200	22.966	52.626	1.00 29.33
ATOM		C ARG A 241	-20.977	21.097	47.158	1.00 32.01 1.00 24.33
ATOM		ARG A 241	-22.088	21.443	46.784	1.00 24.33
ATOM		N SER A 242	-19.870	21.774	46.881	1.00 23.85
ATOM ATOM		CA SER A 242	-19.893	23.054	46.200	1.00 25.36
ATOM		CB SER A 242	-18.654	23.864	46.556	1.00 25.33
ATOM		OG SER A 242	-18.673	24.276	47.912	1.00 26.26
ATOM	364 C		-19.996	22.949	44.688	1.00 26.01
ATOM	366 N		-20.468	23.892	44.059	1.00 26.36
ATOM		A PHE A 243	-19.577	21.818	44.109	1.00 26.84
MOTA		B PHE A 243	-19.363 -17.893	21.702	42.654	1.00 27.40
ATOM		G PHE A 243	-17.893	21.962	42.281	1.00 27.57
ATOM	374 C	D1 PHE A 243	-16.406	23.401	42.388	1.00 28.48
ATOM	376 C	E1 PHE A 243	-16.017	23.768 25.108	43.192	1.00 30.26
ATOM	378 C	Z PHE A 243	-16.693	26.079	43.293 42.573	1.00 31.11
ATOM	380 ·C	E2 PHE A 243	-17.761	25.717		1.00 32.32
ATOM	382 C	D2 PHE A 243	-18.138	24.386	41.751 41.669	1.00 30.72
ATOM	384 C	PHE A 243	-19.744	20.350	42.078	1.00 30.00
ATOM	385 0		-19.065	19.865	41.173	1.00 27.70 1.00 28.04
ATOM ATOM	386 N		-20.810	19.740	42.593	1.00 27.94
ATOM	388 C		-21.388	18.561	41.956	1.00 27.89
ATOM	390 CI		-22.038	17.617	42.969	1.00 27.93
ATOM	395 C		-21.132	16.641	43.439	1.00 27.71
ATOM	396 0		-22.440	19.069	41.004	1.00 28.11
ATOM	397 N		-22.398	18.799	39.810	1.00 28.08
ATOM	399 C	ASP A 245 A ASP A 245	-23.390 -24.480	19.814	41.554	1.00 28.48
ATOM	401 C	B ASP A 245	-24.489 -25.670	20.374	40.772	1.00 28.58
ATOM	404 CC	G ASP A 245	-25.670 -26.367	20.703	41.695	1.00 28.69
ATOM		01 ASP A 245	-27.256	19.446 18.917	42.218	1.00 29.20
ATOM	406 OI	D2 ASP A 245	-26.089		41.510	1.00 29.63
ATOM	407 C	ASP A 245	-24.038		43.312 39.973	1.00 29.52
ATOM	408 0	ASP A 245	-22.985		40.235	1.00 28.43
MOTA	409 N	GLN A 246	-24.833		38.976	1.00 28.14 1.00 28.73
-				_		20.73

ATOM	411	CA	GLN	Α	246	-24.511	23.105	38.107	1.00 28	.73	С
ATOM	413	CB	GLN			-25.515	23.249	36.951	1.00 28		С
ATOM	416	CG	GLN			-25.610	22.033	36.023		.33	C
ATOM	419	CD	GLN			-24.579	22.068	34.924	1.00 27		. С
ATOM ATOM	420 421	OE1 NE2	GLN GLN			-24.870 -23.371	22.489 21.640	33.813 35.231	1.00 28 1.00 27		0
ATOM	421	NEZ C	GLN			-24.553	24.338	38.970	1.00 27		N C
ATOM	425	ŏ	GLN			-25.427	24.478	39.811	1.00 28		Ö
ATOM	426	Ň	PRO			-23.599	25.231	38.798	1.00 29		Ŋ
ATOM	427	CA	PRO			-23.559	26.416	39.647	1.00 29		C
MOTA	429	CB	PRO	A	247	-22.168	27.006	39.357	1.00 29	.77	С
MOTA	432	CG	PRO			-21.788	26.494	37.996	1.00 29		C
ATOM	435	CD	PRO			-22.499	25.198	37.818	1.00 29		C
ATOM	438	C	PRO			-24.706	27.351	39.273	1.00 29		C
MOTA	439	0	PRO			-25.155 -25.215	27.321	38.121	1.00 30		0
ATOM ATOM	440 442	N CA	LYS LYS			-25.215 -26.221	28.119 29.139	40.234 39.937	1.00 30 1.00 30	.26	N C
ATOM	444	CB	LYS			-27.101	29.417	41.162		.54	C
ATOM	447	CG	LYS			-27.941	28.210	41.639		.56	Č
ATOM	450	CD	LYS			-29.123	28.610	42.571	1.00 32		Ċ
ATOM	453	CE	LYS	Α	248	-30.244	27.556	42.530	1.00 33		· c
ATOM	456	NZ	LYS	Α	248	-31.375	27.849	43.451	1.00 33	. 69	· N
ATOM	460	С	LYS			-25.450	30.386	39.495	1.00 30		С
ATOM	461	0	LYS			-24.799	31.051	40.310	1.00 30		0
ATOM	462	N	VAL			-25.448	30.660	38.193	1.00 29		N
ATOM ATOM	464 466	CA CB	VAL VAL			-24.593 -23.202	31.712 31.196	37.651 37.179	1.00 29 1.00 29		C
ATOM	468		VAL			-22.100	32.141	37.639	1.00 29		C
ATOM	472		VAL			-22.892	29.825	37.697	1.00 29		č
ATOM	476	C	VAL			-25.223	32.380	36.464	1.00 28		Č
ATOM	477	0	VAL			-25.831	31.723	35.622	1.00 29	.22	0
ATOM	478	N			250	-25.075	33.699	36.407	1.00 28		N
ATOM	480	CA	THR			-25.410	34.463	35.222	1.00 27		C
ATOM	482	CB	THR			-24.740	35.840	35.274	1.00 27		C
ATOM ATOM	484 486	OG1 CG2	THR THR			-25.260 -25.106	36.595 36.681	36.371 34.074	1.00 26 1.00 27		O C
ATOM	490	CGZ	THR			-24.870	33.663	34.057	1.00 27		c
ATOM	491	ŏ	THR			-23.683	33.365	34.035	1.00 26		ő
ATOM	492	N	PRO			-25.737	33.270	33.121	1.00 27		N
MOTA	493	CA	PRO			-25.312	32.536	31.920	1.00 27		С
MOTA	495	CB	PRO			-26.579	32.520	31.054	1.00 27		C
MOTA	498	CG	PRO			-27.719	32.783	31.974	1.00 27		000
ATOM	501	CD	PRO			-27.194	33.507	33.148	1.00 27		C
ATOM ATOM	504 505	C O	PRO PRO			-24.175 -24.321	33.238 34.425	31.155	1.00 27		C
ATOM	506	N	TRP			-24.321	32.518	30.816 30.892	1.00 26 1.00 27		N
ATOM	508	CA	TRP			-21.942	33.047	30.113	1.00 26		C
ATOM	510	СВ	TRP			-20.742	32.086	30.209	1.00 27		Č
ATOM	513	CG	TRP			-19.466	32.589	29.544	1.00 27		C
MOTA	514		TRP			-19.056	32.336	28.274	1.00 27		C
MOTA	516	NE1	TRP			-17.856	32.956	28.023	1.00 27		N
ATOM	518	CE2				-17.464	33.628	29.147	1.00 27		C
ATOM ATOM	519	CD2	TRP			-18.451	33.412	30.128	1.00 27		C
ATOM	520 522	CE3				-18.274 -17.149	33.994 34.752	31.386 31.625	1.00 26		C
ATOM	524	CH2	TRP			-16.190	34.752	30.630	1.00 27		C
ATOM	526	CZ2				-16.328	34.397	29.383	1.00 27		č
ATOM	528	C			252	-22.364	33.291	28.641	1.00 27		Č
ATOM	529	0	TRP	Α	252	-22.650	32.340	27.914	1.00 26		0
ATOM	530	N			253	-22.413	34.552	28.207	1.00 27		N
ATOM	531	CA	PRO	A	253	-23.075	34.923	26.944	1.00 27	.13	С

ATOM	533	CB	PRO A 25	53 .	-22.633	36.369	26.740	1.00	26.99		С
ATOM	536		PRO A 25		-22.425	36.862	28.122	1.00			č
			PRO A 25				_				
ATOM	539	CD			-21.846	35.730	28.887	1.00			C
ATOM	542		PRO A 25		-22.783	34.037	25.707	1.00			· C
ATOM	543	0	PRO A 25	53 -	-21.842	34.201	24.927	1.00	27.33		0
ATOM ·	544	N	ALA A 20	61 -	-21.033	46.340	25.423	1.00	34.78		N
ATOM	546	CA	ALA A 2		-21.278	46.695	26.824	1.00	34.81		С
ATOM	548	CB	ALA A 2		-21.883	48.098	26.916	1.00			Ċ
ATOM	552	C	ALA A 2		-22.192	45.678	27.518		34.78		. c
ATOM	553	0	ALA A 2		-22.029	45.385	28.711	1.00			0
ATOM	554	N	ASP A 2		-23.157	45.159	26.758	1.00			N
MOTA	556	CA	ASP A 2		-24.179	44.243	27.275	1.00			. ' . C
ATOM	558	CB	ASP A 2		-24.954	43.597	26.105		34.57		С
ATOM	561	CG	ASP A 2		-25.879	44.587	25.373	1.00	34.47		C
ATOM ·	562	OD1	ASP A 2	62	-25.775	45.805	25.617	1.00	34.39		0
ATOM	563	OD2	ASP A 2	62	-26.744	44.240	24.536	1.00	33.23		. 0
ATOM	564	С	ASP A 2		-23.557	43.156	28.157		34.44	•	C
ATOM	565	Ō	ASP A 2		-23.923	43.001	29.321		34.35	•	Ō
ATOM	566	N	ALA A 2		-22.580	42.450	27.588		34.23		N
ATOM		•	ALA A 2		-21.996	41.235	28.170		33.99		·C
	568	CA									
ATOM	570	СВ	ALA A 2		-21.838	40.178	27.079		34.09		C
ATOM ·	574	С	ALA A 2		-20.650	41.464	28.862		33.70		С
MOTA	5 75	0	ALA A 2		-19.984	40.498	29.269		33.64		0
MOTA	576	N	ARG A 2		-20.243	42.737	28.941		33.29		N
MOTA	578	CA	ARG A 2		-19.097	43.178	29.743	1.00	32.67		С
ATOM	580	CB	ARG A 2	64	-18.804	44.674	29.510	1.00	32.96		С
ATOM	583	CG	ARG A 2	64	-17.716	44.953	28.482	1.00	34.81		C
ATOM	586	CD	ARG A 2		-16.292	44.666	29.000	1.00	37.32		С
ATOM	589	NE	ARG A 2		-15.342	44.361	27.918	1.00	39.57		N
ATOM	591	CZ	ARG A 2		-14.061	44.011	28.100		40.37		c
MOTA	592		ARG A 2		-13.558	43.920	29.324		41.07		N
MOTA	595		ARG A 2		-13.278	43.754	27.055		40.24		N
ATOM	598	C	ARG A 2		-19.434	42.929	31.210		31.60		Ĉ
ATOM	599	ŏ	ARG A 2		-18.705	42.225	31.911		31.31		ŏ
MOTA	600	N	GLN A 2		-20.561	43.501	31.648		30.27		N
ATOM	602	CA	GLN A 2		-21.079	43.287	32.999		29.10		Ĉ
ATOM	604	CB	GLN A 2		-22.249	44.239	33.319		28.98		č
ATOM	607	CG	GLN A 2		-21.818	45.574	33.976		29.73		C
ATOM	610	CD	GLN A 2		-22.270	46.818	33.191		30.32		C
ATOM	611		GLN A 2		-22.950	47.694	33.738		30.04		Ö
ATOM	612	NE2			-21.885	46.895	31.917		30.05		N
ATOM	615	C	GLN A 2		-21.499	41.839	33.219		27.75		C
ATOM	616	0	GLN A 2		-21.334	41.328	34.314		27.82		0
ATOM	617	N	GLN A 2		-22.022	41.181	32.187		26.21		N
MOTA	619	CA	GLN A 2		-22.527	39.808	32.321		24.92		C
MOTA	621	CB	GLN A 2		-23.344	39.381	31.094		24.75		С
ATOM	624	CG	GLN A 2		-24.787	38.953	31.377		24.16		, C
ATOM	627	CD	GLN A 2	266	-25.723	39.314	30.227	1.00	23.84		Ċ
ATOM	628	OE1	GLN A 2	266	-26.764	39.936	30.434	1.00	23.51		0
ATOM	629	NE2	GLN A 2	266	-25.338	38.943	29.011	1.00	23.56		N
ATOM	632	С	GLN A 2	266	-21:408	38.795	32.554	1.00	24.04		· C
ATOM	633	0	GLN A 2	266	-21.592	37.849	33.317	1.00	23.90		0
ATOM	634	N	ARG A 2	267	-20.260	38,978	31.902		22.85		N
ATOM	636	CA	ARG A 2		-19.143	38.031	32.058		21.84		Ċ
ATOM	638	CB	ARG A 2		-18.154	38.137	30.883		21.71		č
ATOM	641	CG	ARG A 2		-18.580	37.268	29.730		22.50		č
ATOM	644	CD	ARG A 2		-17.832	37.435	28.429		23.45		C
ATOM	647	NE	ARG A 2		-18.674	36.954	27.323		24.84		N
ATOM	649	CZ	ARG A 2		-18.259	36.692	26.082		24.64		C
ATOM	650		ARG A 2		-16.991	36.857	25.733		25.31		N
ATOM	653		ARG A 2		-19.126	36.262	25.733		23.40		N
ALON	000	MIL	ALC A	,	12.120	30.202	23.100	1.00	40.40		Į,

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ATOM	656	С	ARG	A 267	-15	3.457	38.232	22 414			
ATOM	657	0		A 267	-18	.025	37.274	33.414		20.83	С
ATOM	658	N		A 268	-18	.387	39.496	34.054		20.47	0
ATOM	660	CA		A 268	_17	.848		33.831		19.89	N
ATOM	662	CB	PHE	A 268		.861	39.907		1.00	19.08	C
ATOM	665	CG					41.432	35.225	1.00	18.83	C
MOTA	666		PHE	A 268		.385	41.950	36.546	1.00	17.99	C
ATOM	668	CE1	PHE	A 268	-10	.099	41.692	36.977	1.00	16.96	С
ATOM	670	CZ	סטד.	A 268		.656	42.174	38.208	1.00	17.27	C
ATOM	672		PHE	M 200		5.507	42.916	39.016	1.00	16.82	Ċ
ATOM	674	CD2	PHE	M 200		.794	43.173	38.594	1.00	16.87	Ċ
ATOM	676	CDZ	PHE.	A 268		.226	42.700	37.361	1.00	17.26	Ċ
ATOM	677		PHE.	A 268		.686	39.310	36.236		18.75	Č
ATOM	678	0		A 268		.159	38.688	37.151	1.00	18.48	ŏ
ATOM		N		A 269		.995	39.514		1.00	18.26	N
	680	CA	ALA	A 269		.941	39.054	37.143	1.00	17.83	Č
ATOM ATOM	682	CB	ALA Z	A 269		.374	39.366	36.714	1.00	17.76	č
	686	C	ALA I	A 269	-20	.761	37.573	37.317		17.28	Ċ
ATOM	687	0	ALA A	A 269		.662	37.099	38.446	1.00	17.23	Ö
MOTA	688	N		A 270	-20	.725	36.876	36.178		16.61	Ŋ
ATOM	690	CA		A 270	-20	.439	35.456	36.091	1.00	16.26	C
ATOM	692	CB		A 270	-20	.251	35.037	34.611	1.00	16.45	
ATOM	695	CG	HIS A	A 270	-20	.072	33.561	34.411		17.07	C
ATOM	696	ND1	HIS A	A 270	-21	.112	32.667	34.498	1 00	17.46	C
MOTA	698	CE1	HIS 2	A 270		.659	31.441	34.305		18.13	N
ATOM	700	NE2	HIS A	A 270		.363	31.508	34.081	1 00	17.84	C
ATOM	702	CD2	HIS A			.968	32.820	34.155	1 00	18.32	N
ATOM	704	С		a 270		.196	35.150	36.913	1.00	16.12	C
ATOM	705	0	HIS A	A 270		.222	34.259	37.760	1 00	16.15	С
MOTA	706	N	PHE A	A 271	-18	.115	35.907	36.692	1 00	15.98	0
MOTA	708	CA	PHE A	A 271	-16	.840	35.675	37.409	1 00	15.49	N
ATOM	710	CB	PHE F	271		.728	36.586	36.903	1.00	15.49	C
MOTA	713	CG	PHE A	271		.844	35.923	35.908	1.00	17.14	С
ATOM	714	CD1	PHE A	271		.387	35.182	34.871	1.00	18.69	С
ATOM	716	CE1	PHE A	271		575	34.551	33.944	1.00	18.69	C
MOTA	718	CZ	PHE A	271	-13	211	34.646	34.048	1.00	19.99	C
ATOM	720	CE2	PHE A	271		655	35.384	35.069	1.00	19.96	С
ATOM	722	CD2	PHE A	271		473	36.015	36.005	1.00	19.86	С
ATOM	724	С	PHE A	271	-17	003	35.845	38.882		19.16	С
ATOM	725	0	PHE A		-16	527	35.052	39.664	1.00	14.62	C
ATOM	726	N	THR A		-17.	732	36.882	39.229	1.00	14.92	0
ATOM	728	CA	THR A		-18.	029	37.264	40.588	1.00	14.01	N
ATOM	730	CB	THR A	272	-18.	697	38.673	40.511	1.00	13.51	С
ATOM	732	OG1	THR A	272	-17.	981	39.587	41.346	1.00	13.40	С
ATOM	734	CG2	THR A	272	-20.	135	38.717		1.00	13.64	0
MOTA	738	C	THR A	272	-18.		36.204	40.981 41.357		12.87	C
MOTA	739		THR A		-18.		36.074	42.579	1.00	13.68	C
ATOM	740		GLU A		-19.		35.430		1.00	12.27	0
MOTA	742	CA	GLU A	273	-20.		34.461	40.620 41.208	1.00	14.33	N
ATOM	744		GLU A		-21.		34.347		1.00	14.96	С
MOTA	747		GLU A		-22.		35.506	40.363	1.00	15.07	С
MOTA	750	CD	GLU A	273	-23.		35.917	40.595	1.00	15.71	С
ATOM	751		GLU A	273	-23.	120	35.236	39.347	1.00	18.47	С
ATOM	752	OE2	GLU A	273	-24.			38.305	1.00	19.72	0
ATOM	753	С	GLU A	273	-19.		36.930	39.403	1.00	19.58	0
ATOM	754		GLU A		-19. -20.		33.115	41.402	T.00	15.28	С
ATOM	755		LEU A		-18.		32.411	42.365	1.00	15.66	0
ATOM	757	CA	LEU A	274	-17.	202	32.768	40.489	1.00	15.69	N
MOTA	759	CB	LEU A	274	-17. -17.	シブ ン 11つ	31.720	40.735	1.00	15.82	C
ATOM	762		LEU A	274			31.523	39.513	1.00	16.11	С
ATOM	764		LEU A	274	-17. -17.		30.959	38.341	1.00	18.50	С
ATOM	768	CD2	LEU A	274	-17.		31.090	37.003	1.00	19.08	C
				~ / 2	TO.	443	29.519	38.650	1.00	21.07	С
				····				·			

ATOM ATOM ATOM ATOM	772 773 774 776	O N CA	LEU <i>F</i> LEU <i>F</i> ALA <i>F</i> ALA <i>F</i>	A 2 A 2 A 2	74 75 7 <u>5</u>	-17.091 -16.855 -16.573 -15.706	32.061 31.224 33.284 33.668	41.908 42.747 41.979 43.100		15.73 14.95 14.65			С 0 N С
MOTA	778		ALA A			-15.273	35.105	42.943		14.60			C
ATOM	782		ALA A			-16.386	33.425	44.467	1.00	14.65	•		С 0
ATOM	783 784		ALA A			~15.787 ~17.665	32.880 33.781	45.379 . 44.557		14.61			И
MOTA· ATOM	784 786	CA	ILE A			-18.473	33.701	45.739		14.40			C
ATOM	788	CB	ILE A			-19.853	34.224	45.515		14.07			č
ATOM	790		ILE A			-19.752	35.730	45.719		12.92		•	C
MOTA	793		ILE A			-20.838	36.515	45.086	1.00	10.99		j.	С
ATOM	797	CG2	ILE Z	A 2	76	-20.885	33.637	46.457	1.00	14.11			С
ATOM	801	Ċ	ILE A	A 2	76	-18.635	32.128		1.00	15.52			C
MOTA	802	0	ILE 2			-18.594	31.743	47.217		16.10			0
ATOM	803	И .	ILE A			-18.884	31.289	45.074		16.37			N
ATOM	805	CA	ILE A			-19.072	29.884	45.395		16.51			C
ATOM	807	CB	ILE I			-19.605	29.069	44.188		16.40 15.48			C
ATOM ATOM	809 812		ILE :			-21.009 -21.503	29.557 29.085	42.436		14.84			C
ATOM	816		ILE :			-19.615	27.543	44.502		16.15			č
MOTA	820	C	ILE .			-17.741	29.352	45.943		17.07			č
ATOM	821	ŏ	ILE .			-17.775	28.554	46.868	-	17.29			Ō
ATOM	822	N	SER .			-16.588	29.809	45.424	1.00	17.53			N ·
MOTA	824	CA	SER .			-15.276	29.328	45.935		18.29			С
MOTA	826	CB	SER .			-14.080	29.758	45.095		18.13			C
ATOM	829	OG	SER .			-14.033	29.048	43.876		19.28			0
ATOM	831	C	SER			-15.047	29.819	47.331		18.69			C.
ATOM	832	0	SER			-14.555	29.088	48.162		19.53			0
ATOM	833	N CA	VAL VAL			-15.425 -15.327	31.061 31.582	47.599 48.943		18.86 18.40			C N
ATOM ATOM	835 837	CB	VAL			-15.826	33.007	49.018		18.28			Č
ATOM	839		VAL			-15.875	33.460	50.457		18.92			č
ATOM	843		VAL			-14.915	33.940	48.179		18.55			Č
ATOM	847	C	VAL			-16.101	30.691	49.899	1.00	18.11			C
ATOM ·	848	0	VAL	A 2	279	-15.637	30.422	50.989	1.00	18.34			0
ATOM	849	N	GLN			-17.260	30.206	49.488		18.45			N
ATOM	851	CA	GLN			-18.096	29.360	50.355		19.16			C
ATOM	853	CB	GLN			-19.481	29.137	49.735		19.21			C.
ATOM	856	CG	GLN			-20.395	28.181 27.882	50.530 49.845		19.68 19.43			C
ATOM ATOM	859 860	CD OE1	GLN GLN			-21.736 -21.832	27.889	48.617		20.07			Ö
ATOM	861	NE2	GLN			-22.768	27.626	50.647		18.11			N
ATOM	864	C	GLN			-17.412	28.008	50.613		19.69			C
ATOM	865	0	GLN			-17.382	27.501	51.752	1.00	19.08			0
MOTA	866	N	GLU			-16.850	27.451	49.540		20.23			N
MOTA	868	CA	GLU			-16.128	26.191	49.597		20.69	•		С
MOTA	870	CB	GLU			-15.652	25.802	48.195		21.17			C
ATOM	873	CG	GLU			-15.182	24.352	48.059		23.43			C
MOTA	876	CD	GLU			-14.489	24.077	46.741		25.24 27.50			C
MOTA	877 878		GLÜ GLÜ			-14.400 -14.043	25.003 22.939	45.920		26.24			0
ATOM ATOM	879	C	GLU			-14.947	26.286	50.569		20.27			č
ATOM	880	ŏ	GLU			-14.722	25.383	51.381		19.17			ŏ
ATOM	881	N	ILE			-14.227	27.401	50.493		20.70			N
ATOM	883	ĊA	ILE			-13.020	27.618	51.279		21.12			С
ATOM	885	. CB	ILE			-12.241	28.824	50.743	1.00	21.29			C
MOTA	887		·ILE			-11.674	28.506	49.374		22.06			C
ATOM	890		ILE			-11.200	29.748	48.677		24.25			C
ATOM	894	CG2				-11.072	29.220	51.666		21.70			C
ATOM	898	С	ILE	Ą.	282	-13.399	27.807	52.735	1.00	21.18			C
-													

	ATOM	899	0	ILE	A 282	-12	.773	27 260	F0 604				
	ATOM	900			A 283		.455	27.260	53.634	1.00	20.38		0
	ATOM	902			A 283		.887	28.552	52.977	1.00	21.82		N
	ATOM	904	СВ		A 283		.002	28.744 29.835	54.355	1.00	22.56		C
	ATOM	906			A 283		.530	29.833	54.469	1.00	22.43		· C
	ATOM	910	CG.	2 VAL	A 283		. 454	31.201	55.863	1.00	22.01		C
	ATOM	914			A 283		.313		54.076	1.00	22.49		C
	ATOM	915		VAL	A 283		.946	27.404	54.959	1.00	22.99		С
	ATOM	916		ASP	A 284	-14	. 055	27.104	56.090	1.00	23.43		0
	ATOM	918		ASP	A 284	-16	. 445	26.592	54.196	1.00	23.57		N
	ATOM	920			A 284			25.232	54.627	1.00	23.91		Ċ
	ATOM	923		ASP	A 284	-17 -18		24.496	53.555	1.00	24.56		С
	ATOM	924		1 ASP	A 284	-19	110	25.006	53.464	1.00	27.94		C
	ATOM	925		מפת כ	A 284			24.651	52.474	1.00	30.69		O
	ATOM	926	C C	ACD	A 284	-19.		25.776	54.342	1.00	31.56		0
	ATOM	927		AGD	A 284	-15		24.363	54.962	1.00	22.67		Ċ
	ATOM	928			A 285	-15.		23.576	55.875	1.00	22.99		Ō
	ATOM	930		DUE	A 285	-14.	T80	24.489	54.208	1.00	21.73		N
	ATOM	932		DUE	A 285	-12.		23.686	54.447	1.00	21.06		Ċ
	ATOM	935			A 285	-12.		23.695	53.194	1.00	20.37		Č
	ATOM	936		בתם	A 285	-10.		23.025	53.351	1.00	18.40		č
	ATOM	938	CEI	DUD CAR	A 285	-10.		21.667	53.241	1.00	19.63		Č
	ATOM	940	CZ	DUE.	A 285	-9.		21.030	53.393	1.00	18.18		Č
	ATOM	942		PUC OUT	A 285 A 285		460	21.745	53.668	1.00	17.14		č
	ATOM	944	CD2	. FRE	A 285		544	23.107	53.782	1.00	17.51		č
	ATOM	946	CDZ	DUE DUE	A 285 A 285	-9.	726	23.737	53.621	1.00	16.48		č
	ATOM	947	Ö	DUE	A 285 A 285	-12.	224	24.199	55.691	1.00	21.65		č
	ATOM	948	N	THE NIN	A 285 A 286	-11.		23.414	56.515	1.00	21.74		ŏ
	ATOM	950	CA	ALA.	A 286	-12.		25.519	55.831	1.00	22.24		N
	ATOM	952	CB	ALA .	A 286	-11.		26.144	56.945	1.00	22.34		ĉ
	ATOM	956	С	ALA.	A 286	-11.		27.662	56.873		22.09		č
	ATOM	957	Ö		A 286	-11.	967	25.630	58.255	1.00	22.99		č
	ATOM	958	N		A 286	-11.	245	25.348	59.214	1.00	22.63		ŏ
	ATOM	960	CA		A 287	-13.		25.499	58.258	1.00	23.62		N
	ATOM	962	CB	TVC :	A 287	-14.	022	25.133	59.438		24.58		Ĉ
	ATOM	965	CG	TAC	A 287	-15.		25.200	59.161	1.00	25.41		č
	ATOM	968	CD	TVC	A 287 A 287	-16.	157	26.612	59.304	1.00	27.79		č
	ATOM	971	CE	TYC :	A 287	-17.	429	26.774	58.442	1.00	30.45		č
	ATOM	974	NZ	TVC	A 287 A 287	-18.		26.964	59.266	1.00	30.44		Č
	ATOM	978	C	TVC	A 287	-19.		26.614	58.412		31.17		N
	ATOM	979	Ö	TIP I	A 287	-13.		23.750	59.909	1.00	24.06		Ċ
	ATOM	980	N		A 288	-13.		23.472	61.083		24.69		Õ
	ATOM	982	CA	CINI	A 288	-13.2		22.887	58.982		23.67		N
	ATOM	984	CB	CIN 2	A 288	-12.		21.495	59.266	1.00	23.33		Ċ.
	ATOM	987	CG			-13.4		20.618	58.132		23.55		Č
	ATOM	990	CD	GLN A	A 288	-14.9		20.346	58.204	1.00	26.24		C
	ATOM	991	OE1			-15.5		19.977	56.851	1.00	29.73		Č
	ATOM	992	NE2	GLN F	3 200 3 200	-15.7		18.803	56.568	1.00	33.37		ō
	ATOM	995	C	GLN A		-15.7		20.979	56.006		30.98		N
	ATOM	996	õ	GLN F	1 200	-11.4		21.247	59.461	1.00	22.42		Ĉ
	ATOM	997	N	VAL A	1 200 1 200	-11.0		20.112	59.681	1.00	22.22		Ö
	ATOM	999	CA	VAL A		-10.6		22.291	59.372	1.00	21.47		N
	ATOM	1001	CB	VAL A	202	-9.2		22.147	59.624	1.00	21.01		Ċ
	ATOM	1003		VAL A	202	-8.4		23.258	58.923	1.00	20.55		С
	ATOM	1007	CGS	VAL A	200	-6.9		23.229	59.338	1.00	20.04		Ċ
	ATOM	1011	C	VAL A	280	-8.5		23.112	57.423	1.00	20.55		č
	ATOM	1012	ŏ	VAL A	207	-9.0		22.162	61.137	1.00	21.11		Č
	ATOM	1013	N	PRO A		-9.2		23.151	61.788	1.00	20.89		Ö
	ATOM	1014	CA	PRO A		-8.5		21.078	61.711	1.00	21.55		N
	ATOM	1016	CB	PRO A		-8.2		21.048	63.155	1.00	21.97		C
	ATOM	1019	CG	PRO A		-7.5 -9.1		19.691	63.374	1.00	21.92		Ċ
_				-10 H	. 43U	-8.1	TO 1	18.849	62.272	1.00	22.54		Ċ
			•								·	·	

ATOM	1022	CD	DDO	70	290		_0 177	10 705	61 074	1 00	00 10			_
ATOM	1025						-8.177	19.795	61.074		22.12			C
		C			290 •		-7.382	22.201	63.648		22.60			C
MOTA	1026	0			290		-6.302	22.483	63.085		21.36		•	0
MOTA	1027	N	GLY				-7.862	22.840	64.728		23.56			N
ATOM .	1029	CA			291	•	-7.273	24.061	65.253		24.05	•		C
ATOM	1032	С			291		-8.084	25.312	64.881	1.00	24.85			C
ATOM	1033	0	GLY	Α	291		-8.128	26.286	65.642	1.00	25.14			0
MOTA	1034	N	PHE	A	292		-8.739	25.315	63.724	1.00	25.09			N
MOTA	1036	,CA	PHE	Α	292		-9.328	26.556	63.259	1.00	25.49			
ATOM	1038	CB	PHE	Α	292		-9.782	26.476	61.792		25.34		-	C
MOTA	1041	CG			292		-10.313	27.793	61.247		24.83			Č
ATOM	1042		PHE				-9.473	28.687	60.606		24.26			č
ATOM	1044		PHE				-9.958	29.889	60.111		24.47		•	č
ATOM	1046	CZ			292		-11.275	30.213	60.262		24.13			C C
ATOM	1048		PHE				-12.130	29.324	60.890		24.51			c
ATOM	1050		PHE				-11.651	28.131					•	
					292				61.382		24.38			C
ATOM	1052	С					-10.490	26.935	64.155		26.26			C
ATOM	1053	0			292		-10.486	27.995	64.754		25.69			Ó
ATOM	1054	N			293		-11.483	26.058	64.251		27.65			Ň
ATOM	1056	CA			293		-12.710	26.388	64.964		28.61			C
MOTA	1058	CB			293		-13.840	25.376	64.683		29.02			C
ATOM	1061	CG			293		-14.810	25.599	63.488	1.00	31.33			C
ATOM	1063	CD1	LEU	A	293		-16.103	24.757	63.649	1.00	32.23			С
MOTA	1067	CD2	LEU	Α	293		-15.200	27.064	63.259	1.00	32.62			000
MOTA	1071	С	LEU	A	293	•	-12.422	26.513	66.458	1.00	28.53			C
MOTA	1072	0	LEU	Α	293		-13.307	26.810	67.227		29.36			Ō
MOTA	1073	N	GLN	Α	294		-11.175	26.343	66.857	1.00	28.36			N
ATOM	1075	CA			294		-10.793	26.517	68.233		28.53			C
ATOM	1077	CB			294		-10.086	25.229	68.671		29.69			Č
ATOM	1080	CG			294		-11.080	23.994	68.980		30.93			Č
ATOM	1083	CD			294		-12.019	23.596	67.821		31.94			c
ATOM	1084	OE1			294		-11.601	23.523	66.654		33.37			0
ATOM	1085		GLN				-13.285	23.343	68.153		32.22			N
ATOM	1088	C			294		-9.927							
ATOM	1089				294			27.765	68.483		28.31			C
		0					-9.371	27.939	69.568		28.59			0
ATOM	1090	N			295		-9.821	28.644	67.479		27.61			N
ATOM	1092	CA			295		-9.274	30.007	67.642		25.98			С
ATOM	1094	CB			295		-8.658	30.501	66.340		25.70			C
MOTA	1097	CG			295		-7.250	30.025	66.006		25.90			С
ATOM	1099		LEU				-6.950	30.228	64.483		25.84			CCC
ATOM	1103		LEU				-6.190	30.700	66.899		25.19			С
MOTA	1107	С			295		-10.417	30.935	68.024	1.00	25.16			С
ATOM	1108	0			295		-11.575	30.558	67.862	1.00	24.68			0
ATOM ·	1109	N			296		-10.097	32.143	68.505	1.00	24.51			N
ATOM	1111	CA	GLY	Α	296		-11.111	33.132	68.854	1.00	24.03			С
ATOM	1114	С	GLY	Α	296		-11.784	33.597	67.590		24.16			С
MOTA	1115	0	GLY	Α	296		-11.126	33.708	66.564		24.80			0
ATOM	1116	N	ARG	Α	297		-13.080	33.860	67.620		24.32			N
ATOM	1118	CA			297		-13.810	34.213	66.382		25.00			C
ATOM	1120	CB			297		-15.255	34.611	66.698		25.43			C
ATOM	1123	CG	ARG				-16.188	34.290	65.559		27.42			·C
MOTA	1126	CD	ARG				-17.373	35.210	65.432		31.34			Ċ.
	1129	NE	ARG				-18.364	34.571	64.557		35.73			
ATOM	1131	CZ	ARG				-19.306	35.200	63.859		37.74			И
ATOM	1132	NH1					-19.306	36.516						C
ATOM	1135	NH2					-20.138		63.913		38.58			N
ATOM	1138							34.496	63.102		38.50			N
		C	ARG				~13.182°	35.312	65.466		24.72			C
ATOM	1139	0			297		-13.282	35.238	64.232		23.75			0
MOTA	1140	N	GLU				-12.582	36.328	66.090		24.68			N
ATOM	1142	CA	GLU				-11.933	37.438	65.387		24.95			C
MOTA	1144	CB	GLU	Α	298		-11.537	38.549	66.372	1.00	25.42			·C

	3 3 4 7	~~	AT						
MOTA	1147	CG		A 298	-12.416	39.784	66.315	1.00 28.30	С
MOTA	1150	CD	GLU 2	A 298	-13.846	39.509	66.741	1.00 32.48	С
ATOM	1151	OE1		A 298	-14.656	39.068	65.869	1.00 35.14	ō
MOTA	1152			A 298	-14.156	39.737	67.944	1.00 34.25	0
ATOM	1153	С	GLU	A 298	-10.695	36.976	64.615	1.00 24.10	C
ATOM	1154	0	GLU :	A 298	-10.458	37.418	63.488	1.00 23.76	0
ATOM	1155	N		A 299	-9.902	36.108	65.227		
								1.00 23.29	N
MOTA	1157	CA		A 299	-8.799	35.478	64.505	1.00 22.93	C
ATOM	1159	CB	ASP .	A 299	-7.881	34.701	65.449	1.00 22.83	С
ATOM	1162	CG		A 299	-7.095	35.611	66.379	1.00 22.90	Č
ATOM	1163			A 299	-6.927	36.798	66.038	1.00 21.91	0
ATOM	1164	OD2	ASP .	A 299	-6.622	35.221	67.473	1.00 24.10	0
MOTA	1165	С	ASP .	A 299	-9.274	34.553	63.392	1.00 22.80	С
ATOM	1166	Ö		A 299	-8.617	34.464	62.367	1.00 22.18	Ö
ATOM	1167	N		A 300	-10.404	33.864	63.583	1.00 22.76	N
ATOM	1169	CA.	${ t GLN}$	A 300	-10.942	33.027	62.510	1.00 22.87	С
ATOM	1171	CB	GLN	A 300	-12.216	32.311	62.924	1.00 22.91	С
ATOM	1174	CG		A 300	-11.973	31.073	63.743	1.00 23.81	Č
									C
MOTA	1177	CD		A 300	-13.227	30.542	64.412	1.00 23.65	С
MOTA	1178	OE1	${ t GLN}$	A 300	-13.146	30.027	. 65.521	1.00 24.04	0
ATOM	1179	NE2	GLN	A 300	-14.378	30.679	63.757	1.00 23.05	И.
MOTA	1182	C		A 300	-11.261	33.863	61.293		
								1.00 22.97	C
MOTA	1183	0		A 300	-10.993	33.443	60.164	1.00 24.45	0
MOTA	1184	N	ILE	A 301	-11.854	35.030	61.534	1.00 22.34	N
ATOM	1186	CA	ILE	A 301	-12.253	35.953	60.491	1.00 21.80	С
ATOM	1188	СВ		A 301	-13.185	37.048	61.078	1.00 21.87	c
ATOM					-14.594				2
	1190	CG1		A 301		36.477	61.342	1.00 22.74	C
MOTA	1193	CD1		A 301	-15.503	37.351	62.232	1.00 22.27	С
ATOM	1197	CG2	ILE	A 301	-13.313	38.185	60.127	1.00 21.94	C
ATOM	1201	С	ILE	A 301	-11.020	36.576	59.838	1.00 21.40	С
ATOM	1202	ō		A 301	-10.971	36.722	58.605	1.00 21.05	ő
ATOM	1203	N		A 302	-10.036	36.922	60.674	1.00 20.83	N
ATOM	1205	CA	ALA	A 302	-8.830	37.605	60.233	1.00 20.46	С
ATOM	1207	CB	ALA	A 302	-7.987	37.974	61.406	1.00 19.86	С
ATOM	1211	С	AT.A	A 302	-8.039	36.724	59.281	1.00 20.94	C
ATOM	1212	ō		A 302	-7.610	37.189	58.216	1.00 20.77	ő
ATOM	1213	N		A 303	-7.872	35.453	59.658	1.00 21.40	N
ATOM	1215	CA	LEU	A 303	-7.090	34.488	58.881	1.00 21.77	C
ATOM	1217	CB	LEU	A 303	-6.801	33.228	59.684	1.00 21.23	С
ATOM	1220	CG		A 303	-6.008	33.467	60.968	1.00 21.16	Ċ
ATOM	1222	CD1		A 303					2
					-5.946	32.138	61.668	1.00 21.97	C
ATOM	1226	CD2	LEU	A 303	-4.600	34.067	60.755	1.00 19.94	C
ATOM	1230	С	LEU	A 303	-7.786	34.109	57.585	1.00 22.85	C
ATOM	1231	0		A 303	-7.134	33.988	56.537	1.00 22.72	ō
ATOM	1232	N		A 304	-9.100				
						33.918	57.639	1.00 23.86	N
ATOM	1234	CA		A 304	-9.856	33.696	56.403	1.00 24.79	C
MOTA	1236	CB	LEU	A 304	-11.294	33.276	56.694	1.00 25.13	С
MOTA	1239	CG	LEU	A 304	-11.480	31.777	56.894	1.00 27.17	Ç
ATOM	1241			A 304	-12.937	31.437	57.319	1.00 27.02	č
				A 304					C
ATOM	1245				-11.069	31.035	55.600	1.00 28.70	C
MOTA	1249	С		A 304	-9.838	34.926	55.483	1.00 24.88	С
MOTA	1250	0	LEU	A 304	-9.728	34.784	54.278	1.00 25.15	0
MOTA	1251	N	LYS	A 305	-9.938	36.128	56.033	1.00 24.70	N
ATOM	1253	CA		A 305	-9.977	37.306	55.173	1.00 24.80	
									C
ATOM	1255	CB		A 305	-10.122	38.628	55.957	1.00 25.19	C
MOTA	1258	CG		A 305	-11.575	39.064	56.156	1.00 27.47	C
MOTA	1261	CD	LYS	A 305	-11.731	40.506	56.674	1.00 29.14	C
MOTA	1264	CE		A 305	-11.169	41.544	55.708	1.00 29.79	Č
ATOM	1267	NZ		A 305	-12.152	42.664	55.499	1.00 29.76	N
ATOM	1271	C							
				A 305	-8.738	37.360	54.307	1.00 24.04	C
ATOM	1272	_	ПXS	A 305	-8.842	37.631	53.127	1.00 24.22	0

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ATOM	1273	N	ALA	Α	306	-7.576	37.100	54.893	1.00 23.38	N
ATOM	1275	CA	ALA			6.310	37.249	54.191	1.00 22.95	č
										2
ATOM	1277	CB	ALA			-5.225	37.367	55 . 183	1.00 23.00	C
MOTA	1281	C	ALA	Α	306	-6.029	36.064	53.266	1.00 23.52	С
ATOM	1282	0	ALA			-5.458	36.226	52.197	1.00 23.67	0.
ATOM	1283	N	SER			-6.467	34.877	53.694	1.00 23.82	N
ATOM	1285	CA	SER	Α	307	-6.222	33.599	53.023	1.00 23.95	C
ATOM	1287	СВ	SER	Δ	307	-6.596	32.467	53.986	1.00 24.44	С
										o.
MOTA	1290	OG	SER			-5.539		54.863	1.00 28.57	
ATOM	1292	С	SER	Α	307	-7.068	33.348	51.788	1.00 23.00	C
ATOM	1293	0	SER			-6.685	32.637	50.874	1.00 22.83	0
										•
ATOM	1294	И.	THR			-8.270	33.870	51.809	1.00 22.03	, N
ATOM	1296	CA	THR	Α	308	-9.257	33.485	50.837	1.00 21.51	C
MOTA	1298	CB	THR	Δ	308	-10.553	34.297	51.065	1.00 21.69	C
									1.00 21.74	Ö
MOTA	1300		THR			-11.122	33.910	52.312		Ū
MOTA	1302	CG2	THR	Α	308	-11.647	33.909	50.100	1.00 22.66	C
ATOM	1306	С	THR	Α	308	-8.725	33.603	49.407	1.00 20.49	. С
			THR			-8.767	32.632	48.675	1.00 20.62	Ō
ATOM	1307	0								
ATOM	1308	N	ILE			-8.206	34.759	49.015	1.00 19.39	. N
ATOM	1310	CA	ILE	Α	309	-7.715	34.924	47.646	1.00 18.77	C
								47.351	1.00 18.63	C
ATOM	1312	CB	ILE			-7.337	36.393			
ATOM	1314	CG1	ILE	A	309	-7.044	36.608	45.855	1.00 19.02	· C
ATOM	1317	CD1	ILE	Α	309	-8.254	36.358	44.924	1.00 19.57	С
-	1321		ILE			-6.139	36.793	48.139	1.00 18.43	C
ATOM										. C
MOTA	1325	C	ILE			-6.527	34.004	47.381	1.00 18.63	C
ATOM	1326	0	ILE	Α	309	-6.354	33.525	46.249	1.00 18.68	0
ATOM	1327	N	GLU			-5.705	33.775	48.413	1.00 18.19	N
ATOM	1329	CA	GLU			-4.515	32.938	48.286	1.00 17.74	С
ATOM	1331	CB	GLU	A	310	-3.592	33.055	49.501	-1.00 17.22	000
ATOM	1334	CG	GLU	Ά	310	-3.035	34.449	49.613	1.00 17.01	C
								50.786	1.00 16.86	
MOTA	1337	CD			310		34.694			Č
MOTA	·1338	OE1	\mathtt{GLU}	Α	310	-1.578	33.754	51.386	1.00 17.65	0
ATOM	1339	OE2	GLU	А	310	-1.964	35.882	51.094	1.00 16.61	0
	1340	C	GLU			-4.929	31.517	48.080	1.00 18.04	Ċ
MOTA										
ATOM	1341	0	GLU	A	310	-4.327	30.824	47.303	1.00 19.07	0
ATOM	1342	N	ILE	Α	311	-5.978	31.084	48.747	1.00 18.10	N
MOTA	1344	CA	ILE			-6.409	29.721	48.622	1.00 18.31	. С
									•	
MOTA	1346	CB	ILE			~7.388	29.349		1.00 18.22	. c
MOTA	1348	CG1	ILE	Α	311	-6.685	29.378	51.088	1.00 19.46	С
MOTA	1351	CD1	ILE	Δ	311	-7.626	29.479	52.271	1.00 20.90	Ċ
										Č
MOTA	1355		ILE			-7.895	27.966	49.527	1.00 19.07	C
ATOM	1359	С	ILE	Α	311	-7.052	29.577	47.274	1.00 18.37	С
MOTA	1360	0	ILE	Α	311	-7.004	28.511	46.690	1.00 19.22	0
MOTA	1361	N	MET			-7.657	30.651	46.782	1.00 18.59	N
										N
ATOM	1363	CA	MET			-8.302	30.648	45.483	1.00 19.12	C
MOTA	1365	CB	MET	Α	312	-9.078	31.951	45.258	1.00 19.36	C
ATOM	1368	CG	MET			-10.465	31.911	45.882	1.00 21.56	. C
										. 0
MOTA	1371	SD	MET			-11.398	33.489	46.069	1.00 24.13	S
ATOM	1372	CE	MET	A	312	-12.498	33.369	44.743	1.00 24.71	C
MOTA	1376	С	MET			-7.269	30.479	44.384	1.00 19.31	С
						-7.549		43.330		
ATOM	1377	0	MET				29.928		1.00 19.64	
MOTA	1378	N	LEU	Α	313	-6.073	30.983	44.635	1.00 19.67	N.
MOTA	1380	CA	LEU	Α	313	-4.998	30.969	43.668	1.00 19.66	С
ATOM	1382	CB			313	-3.984	32.036	44.049	1.00 19.66	
ATOM	1385	CG	LEU			-4.382	33.451	43.609	1.00 19.99	
ATOM	1387	CD1	LEU	Α	313	-3.726	34.533	44.426	1.00 20.68	С
MOTA	1391		LEU			-3.965	33.656	42.193	1.00 20.17	
										Š
MOTA	1395	C			313	-4.382	29.580	43.614	1.00 19.87	
ATOM	1396	0	LEU	Α	313	-4.102	29.071	42.557	1.00 19.56	0
MOTA	1397	N	LEU			-4.187	28.975	44.768	1.00 20.83	
ATOM	1399	CA	LEU			-3.805		44.872	1.00 22.28	
AIOM	エンフブ	CM	טיביט	u	2T4	-3.603	41.5/4	44.0/2	1.00 22.20	C

ATOM	1401	CB	LEU	Α	314	-3.727	27.163	46.359	1 00 22 40	_
ATOM	1404	CG			314	-2.398			1.00 22.48	
ATOM	1406						27.033	47.141	1.00 23.90	
			LEU			-1.137	27.368	46.355	1.00 24.36	
ATOM	1410		LEU			-2.445	27.875	48.405	1.00 24.82	C
MOTA	1414	С			314	-4.835	26.670	44.161	1.00 23.33	C
ATOM	1415	0	LEU	Α	314	-4.491	25.810	43.346	1.00 23.05	
MOTA	1416	N	GLU	Α	315	-6.101	26.885	44.498	1.00 24.65	_
MOTA	1418	CA	GLU	Α	315	-7.195	26.089	43.976	1 00 25 50	
ATOM	1420	CB			315	-8.528			1.00 25.56	
ATOM	1423	CG			315		26.462	44.650	1.00 25.69	
						-8.815	25.728	45.979	1.00 28.10	
ATOM	1426	CD			315	-8.859	24.192	45.890	1.00 30.08	С
MOTA	1427		GLU			-9.321	23.639	44.872	1.00 33.50	0
ATOM	1428	OE2	GLU	Α	315	-8.428	23.521	46.852	1.00 32.27	
MOTA	1429	·C	GLU	Α	315	-7.296	26.247	42.469	1.00 25.69	
ATOM	1430	0	GLU	Α	315	-7.555	25.285	41.787	1.00 26.52	_
MOTA	1431	N			316	-7.082	27.448	41.955	1 00 25.52	
ATOM	1433	CA			316	-7.090			1.00 25.90	
MOTA	1435	CB					27.696	40.526	1.00 26.05	
					316	-6.922	29.203	40.277	1.00 26.00	
ATOM	1437	OG1			316	-8.093	29.889	40.710	1.00 24.43	0
ATOM	1439	CG2			·316	-6.825	29.557	38.776	1.00 26.36	C
ATOM	1443	С	THR	A	316	-5.949	26.911	39.881	1.00 27.15	
ATOM ·	1444	0	THR	Α	316	-6.106	26.291	38.827	1.00 27.00	
ATOM	1445	N			317	-4.792	26.935	40.526	1.00 28.49	
MOTA	1447	CA			317	-3.647	26.202	40.032		
ATOM	1449	CB			317.				1.00 29.48	
ATOM	1453	C			317		26.524	40.852	1.00 29.09	
ATOM						-3.946	24.693	40.025	1.00 30.57	
	1454	0	ALA			-3.513	23.991	39.109	1.00 30.74	
ATOM	1455	N	ARG			-4.687	24.216	41.028	1.00 31.85	N
ATOM	1457	CA	ARG			-5.126	22.825	41.101	1.00 33.09	С
MOTA	1459	CB	ARG	Α	318	-5.911	22.570	42.392	1.00 33.39	
MOTA	1462	CG	ARG	Α	318	-5.487	21.303	43.102	1.00 36.52	č
ATOM	1465	CD	ARG	Α	318	-5.983	21.150	44.538	1.00 41.24	
ATOM	1468	NE	ARG			-6.420	19.776	44.794		_
ATOM	1470	CZ	ARG			-7.700			1.00 44.94	
ATOM	1471		ARG				19.383	44.906	1.00 49.98	
ATOM	1474					-8.712	20.264	44.812	1.00 51.18	
			ARG			-7.985	18.089	45.115	1.00 51.48	
MOTA	1477	C	ARG			-5.984	22.488	39.874	1.00 33.69	
MOTA	1478	0	ARG			-5.744	21.492	39.180	1.00 33.38	0
MOTA	1479	N	ARG			-6.941	23.375	39.589	1.00 34.59	N
ATOM	1481	CA	ARG			-7.887	23.259	38.465	1.00 35.10	
ATOM	1483	CB	ARG	Α	319	-9.108	24.159	38.716	1.00 34.88	
ATOM	1486	CG	ARG			-9.918	23.762	39.930	1.00 35.78	
ATOM	1489	CD	ARG			-11.099	24.665	40.185		C
ATOM	1492	NE	ARG			-11.891	24.243		1.00 38.17	С
MOTA	1494	CZ	ARG					41.351	1.00 39.91	N
ATOM	1495		ARG			-12.277	25.046	42.355	1.00 41.85	C
						-11.947	26.339	42.397	1.00 42.33	N
ATOM	1498		ARG			-12.985	24.543	43.353	1.00 43.47	N
ATOM	1501	C	ARG			-7.285	23.598	37.093	1.00 35.47	С
ATOM	1502	0	ARG	A	319	-7.976	23.569	36.076	1.00 35.25	ō
MOTA	1503	N	TYR	Α	320	-6.003	23.934	37.066	1.00 36.30	И
ATOM	1505	CA	TYR			-5.333	24.270	35.818	1.00 36.91	
MOTA	1507	CB	TYR			-4.014	25.004	36.080	1.00 36.73	C
ATOM	1510	CG	TYR			-3.309	25.509	34.837		C
ATOM	1511	CD1							1.00 36.21	C
ATOM	1513			ה ה	220	-3.835	26.560	34.077	1.00 36.01	С
		CET	TYR			-3.161	27.041	32.939	1.00 35.49	C
ATOM	1515	CZ	TYR			-1.952	26.461	32.557	1.00 35.82	С
ATOM	1516	OH	TYR	Α	320	-1.250	26.900	31.438	1.00 36.55	Ō
MOTA	1518 .	CE2	TYR	A	320	-1.432	25.416	33.299	1.00 35.51	Č
ATOM	1520	CD2	TYR	Α	320	-2.107	24.948	34.429	1.00 35.41	· c
ATOM	1522	С	TYR			-5.081	22.984	35.058	1.00 37.52	
MOTA	1523	0	TYR			-4.856	21.920	35.656	1.00 37.32	C
						2.000		22.030	4.00 31.11	0

ATOM	1524	N	ASN A	321	-5.132	23.095	33.741	1.00 38.08
ATOM	1526	CA	ASN A		-4.933	21.965	32.868	1.00 38.74
ATOM	1528	CB	ASN A		-6.292	21.542		1.00 39.04
ATOM	1531	CG	ASN A		-6.270	20.161	31.660	1.00 39.71
ATOM	1532	OD1	ASN F		-5.695	19.212	32.207	1:00 39.37
ATOM	1533		ASN A		-6.921	20.040	30.495	1.00 40.27
ATOM	1536	C	ASN A		-3.975	22.450	31.795	1.00 39.20
ATOM	1537	ō	ASN A		-4.361	23.240	30.934	1.00 38.92
ATOM	1538	N	HIS A		-2.714	22.017		1.00 38.92
ATOM	1540	CA	HIS A		-1.655	22.572	31.029	1.00 39.98
ATOM	1542	СВ	HIS A		-0.274	22.102	31.487	1.00 40.84
ATOM	1545	CG	HIS A		0.864	22.772		
ATOM	1546		HIS A		1.029		30.767	1.00 42.17
ATOM	1548		HIS A		2.112	24.142	30.741	1.00 42.91
ATOM	1550					24.440		1.00 43.21
ATOM	1552		HIS A		2.653	23.314	29.608	1.00 43.01
ATOM			HIS A		1.889	22.256	30.042	1.00 42.88
	1554	С			-1.851	22.243		1.00 40.86
ATOM	1555	0	HIS A		-1.574	23.078	28.683	1.00 41.03
MOTA	1556	N	GLU A		-2.317	21.027		1.00 41.10
ATOM	1558	CA	GLU A		-2.709	20.652	27.904	1.00 41.20
ATOM	1560	CB	GLU A		-3.456	19.306	27.896	1.00 41.38
ATOM	1563	CG	GLU A		-2.655	18.079	28.329	1.00 41.67
ATOM	1566	CD	GLU A		-3.403	16.773	28.066	1.00 41.89
ATOM	1567		GLU A		-4.263	16.390	28.904	1.00 41.85
ATOM	1568		GLU A		-3.140	16.137		1.00 40.22
ATOM	1569	C	GLU A		-3.606	21.733	27.270	1.00 41.09
ATOM	1570	0	GLU A		-3.355	22.148	26.142	1.00 40.95
MOTA	1571	N	THR A		-4.626	22.190	28.015	1.00 41.03
MOTA	1573	CA	THR A		-5.670	23.114	27.504	1.00 40.78
ATOM	1575	CB	THR A		-7.095	22.609	27.932	1.00 40.89
ATOM	1577		THR A		-7.189	22.469	29.362	1.00 39.74
ATOM	1579	CG2	THR A		-7.387	21.187	27.379	1.00 40.81
ATOM	1583	С	THR A		-5.533	24.626	27.852	1.00 40.66
ATOM	1584	0	THR A		-6.207	25.455	27.232	1.00 40.67
MOTA	1585	N	GLU A		-4.659	24.975	28.802	1.00 40.26
ATOM	1587	CA	GLU A		-4.478	26.359	29.285	1.00 40.12
MOTA	1589	CB	GLU A		-3.905	27.276	28.182	1.00 40.18
ATOM	1592	CG	GLU A		-2.419	27.589	28.320	1.00 40.42
MOTA	1595	CD	GLU A		-1.562	26.845	27.301	1.00 41.51
ATOM	1596		GLU A		-1.843	25.658	27.002	1.00 41.27
ATOM	1597		GLU F		-0.595	27.450	26.787	1.00 42.41
ATOM	1598	C	GLU F		-5.738	26.999	29.917	1.00 39.99
ATOM	1599	0		325	-5.946	28.221	29.812	1.00 40.10
ATOM	1600	N	CYS F		-6.541	26.183	30.609	1.00 39.50
ATOM	1602	CA		326	-7.790	26.640	31.228	1.00 38.95
ATOM	1604	CB	CYS F		-8.992	26.185	30.401	1.00 39.01
ATOM	1607	SG	CYS A		-9.111	26.981	28.799	1.00 38.58
ATOM	1608	С	CYS F		-7.992	26.138	32.643	1.00 38.53
ATOM	1609	0	CYS A		-7.344	25.183	33.093	1.00 38.33
ATOM	1610	N	ILE F		-8.945	26.771	33.316	1.00 37.77
ATOM	1612	CA	ILE A		-9.236	26.471	34.697	1.00 37.49
ATOM	1614	CB	ILE A	327	-9.142	27.781	·35.509	1.00 37.81
ATOM .	1616	CG1	ILE F	327	-7.742	28.428	35.312	1.00 37.66
ATOM	1619	CD1	ILE F	327		29.940	35.326	1.00 36.71
ATOM	1623		ILE A		-9.465	27.528	37.007	1.00 37.15
ATOM	1627	Ċ	ILE A		-10.618	25.824	34.786	1.00 37.10
MOTA	1628	0	ILE A		-11.616	26.483	34.552	1.00 37.07
ATOM	1629	N	THR F		-10.662	24.538	35.125	1.00 36.78
MOTA	1631	CA	THR F		-11.886	23.740	35.080	1.00 36.62
ATOM	1633	CB	THR A		-11.592	22.371	34.445	1.00 36.47
MOTA	1635	OG1	THR F	328	-10.710	22.524	33.335	1.00 35.61
			-					

ATOM	1637	CG2	THR	А	328	-12.848	21.766	33.860	1 00	36.27	С
ATOM	1641	C			328	-12.499	23.480	36.456		37.12	č
ATOM	1642	ŏ			328	-12.047	22.567	37.178		37.38	Õ
ATOM	1643	N			329	-13.539	24.250	36.799		37.04	N
ATOM	1645	CA			329	-14.393	23.973	37.963		36.98	C
ATOM	1647	CB			329	-15.369	25.106	38.138		37.16	C
ATOM	1650	CG			329	-14.738					C
							26.338	38.646		38.09	C
MOTA	1651		PHE			-14.309	27.316	37.774		38.50	C
ATOM	1653		PHE			-13.726	28.470	38.256		39.61	C
MOTA	1655	CZ			329	-13.545	28.646	39.629		39.60	C
MOTA	1657		PHE			-13.963	27.667	40.501		39.64	C
ATOM	1659		PHE			-14.556	26.517	40.010		39.10	C
MOTA	1661	С			329	-15.189	22.653	37.917		36.78	С
ATOM	1662	0			329	-15.187	21.881	38.884		37.36	0
ATOM	1663	N			330	-15.903	22.416	36.824		36.01	N
ATOM	1665	CA			330	-16.477	21.095	36.574		35.45	С
ATOM	1667	CB	LEU	Α	330	-17.773	20.911	37.375	1.00	35.35	С
ATOM	1670	CG	LEU	A	330	-18.838	21.996	37.204	1.00	35.24	С
MOTA	1672	CD1	LEU	Α	330	-20.224	21.375	37.099		34.65	. C
ATOM	1676	CD2	LEU	Α	330	-18.771	23.012	38.342	1.00	35.02	C
MOTA	1680	С	LEU	Α	330	-16.689	20.911	35.067		35.15	С
ATOM	1681	0			330	-16.214	21.729	34.284		35.20	Ō
MOTA	1682	N			331	-17.370	19.842	34.653		34.67	N
MOTA	1684	CA			331	-17.650	19.642	33.235		34.60	C
ATOM	1686	СВ			331	-18.594	18.450	32.996		34.84	Ċ
MOTA	1689	CG			331	-18.187	17.152	33.694		36.07	000
MOTA	1692	CD			331	-17.697	16.071	32.717		37.53	Č
ATOM	1695	CE			331	-16.590	15.173	33.334		37.55	č
ATOM	1698	NZ			331	-17.013	13.739	33.451		37.10	Ŋ
MOTA	1702	C			331	-18.304	20.912	32.708		33.99	° C
ATOM	1703	ŏ			331	-19.228	21.421	33.338		34.33	0
ATOM	1704	N			332	-17.805	21.421	31.586		33.07	
ATOM	1704	CA			332	-18.426	22.566	30.872			И
ATOM	1708	CB			332	-19.907	22.283	30.586		32.35	C
ATOM	1711	CG			332	-20.091				32.01	C C O
ATOM	1712		ASP			-19.396	21.165	29.608		31.87	0
ATOM	1713						21.164	28.574		31.76	Ō
ATOM	1714		ASP			-20.907	20.242	29.774		32.07	0
ATOM	1715	C			332	-18.279	23.950	31.515		31.90	C
		0			332	-18.887	24.910	31.057		32.08	0
ATOM	1716	N			333	-17.471	24.066	32.556		31.47	N
MOTA	1718	CA			333	-17.178	25.367	33.157		31.12	C C
MOTA	1720	CB			333	-17.792	25.486	34.552		31.25	C
MOTA	1723	CG			333	-19.276	25.713	34.537		30.67	C
MOTA	1724		PHE			-20.154	24.635	34.520		30.49	C
ATOM	1726		PHE			-21.531	24.834	34.492		31.19	С
MOTA	1728	CZ	PHE	A	333	-22.040	26.127	34.498		31.20	С
ATOM	1730		PHE			-21.165	27.213	34.518		30.95	C
ATOM	1732		PHE			-19.792	27.000	34.534		30.37	С
MOTA	1734	С			333	-15.673	25.509	33.218		30.89	С
ATOM	1735	0			333	-15.061	25.168	34.232	1.00	30.67	0
MOTA	1736	N			334	-15.113	25.977	32.095		30.70	N
MOTA	1738	CA			334	-13.679	26.182	31.887	1.00	30.50	С
ATOM	1740	CB			334	-13.126	25.236	30.798		30.73	С
ATOM	1742	OG1			334	-14.116	24.273	30.413		30.85	0
MOTA	1744	CG2	THR			-11.959	24.400	31.335	1.00	31.05	С
MOTA	1748	C			334	-13.430	27.605	31.433		30.36	С
MOTA	1749	0	THR	Α	334	-14.285	28.198	30.782		30.22	0
ATOM	1750	N			335	-12.252	28.143	31.760		30.49	N
MOTA	1752	CA			335	-11.945	29.554	31.504		30.52	C
MOTA	1754	CB	TYR	A	335	-12.281	30.417	32.744	1.00	30.50	Ċ
ATOM	1757	CG			335	-13.725	30.253	33.151		29.73	č
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ATOM	1758	CD1	TYR	7	325	-14.111	29.211	33 000	 	•	
ATOM	1760	CE1	TYR			-15.437	29.211	33.988 34.319	29.00		C
ATOM	1762	CZ			335	-16.404	29.848	33.813	29.25 29.43		C
ATOM	1763	ОН	TYR			-17.728	29.640	-			C
ATOM	1765	CE2	TYR					34.157	29.83		.0
ATOM ·	1767	CD2				-16.047	30.890	32.964	29.62		С
ATOM	1769		TYR TYR			-14.711	31.082	32.634	29.34		С
		C				-10.499	29.746	31.054	30.71		С
ATOM	1770	0	TYR			-9.557	29.311	31.731	30.82		0
MOTA	1771	N.			336	-10.355	30.397	29.900	30.62		N.
ATOM	1773	CA			336	-9.067	30.653	29.275	30.64		С
ATOM	1775	CB			336	-9.190	30.444	27.760	30.56		С
ATOM	1778	OG			336	-9.901	31.505	27.136	30.44		0
MOTA	1780	C			336	-8.596	32.081	29.570	30.66	-	C
MOTA	1781	0.			336	-9.396	32.923	29.964	30.70		0
ATOM	1782	N	LYS			-7.309	32.351	29.345	30.48		N
MOTA	1784	CA	LYS			-6.727	33.684	29.534	30.56		С
MOTA	1786	CB	LYS			-5.314	33.747	28.927	31.14		С
ATOM	1789	CG	LYS			-4.155	33.988	29.928	32.14		С
ATOM	1792	CD	LYS			-2.765	33.637	29.325	33.30		С
MOTA	1795	CE	LYS			-2.704	32.176	28.795	33.77	•	С
ATOM ATOM	1798	NZ	LYS			-1.345	31.557	28.831	33.44		N
	1802	C	LYS			-7.569	34.772	28.894	30.26		С
ATOM ATOM	1803	0	LYS			-7.521	35.928	29.313	30.04		0
	1804	N	ASP			-8.305	34.402	27.845	30.27		N
ATOM ATOM	1806 1808	CA	ASP			-9.172	35.336		29.97		С
ATOM	1811	CB CG	ASP			-9.520	34.794	25.734	30.06		C
ATOM	1812		ASP			-8.406	34.976	24.760	29.95		C
ATOM	1813		ASP ASP			-7.236 -8.607	34.956	25.216	29.17		0
ATOM	1814	C	ASP			-10.451	35.155	23.535	30.85		0
ATOM	1815	õ			338 ·	-10.830	35.607	27.867	29.57		C
ATOM	1816	N			339.	-11.119	36.759	28.065	29.03		0
ATOM	1818	CA	ASP			-12.340	34.529	28.256	29.61		N
ATOM	1820	CB	ASP			-12.776	34.613	29.051	29.76		C
ATOM	1823	CG	ASP			-13.224	33.208 32.292	29.519	29.82		C
ATOM	1824		ASP			-13.350	32.747	28.352 27.192	30.31		C
ATOM	1825		ASP			-13.471	31.079		29.58		0
ATOM	1826	C	ASP			-12.173	35.590	28.511 30.238	31.96 29.61		0
ATOM	1827	Õ	ASP			-13.081	36.367	30.528			C
ATOM	1828	Ŋ	PHE			-11.004	35.578	30.885	29.84 29.50		0
ATOM	1830	CA	PHE			-10.685	36.523	31.970	29.30		N
ATOM	1832	СВ	PHE			-9.293	36.251	32.549	29.08		C
ATOM	1835	CG	PHE			-9.238	35.138	33.575	27.85		C
ATOM	1836		PHE			-9.486	33.827	33.214	26.34		C
ATOM .	1838		PHE			-9.412	32.806	34.123	26.55		C
MOTA	1840	CZ	PHE			-9.065	33.070	35.429	28.40		c
ATOM	1842		PHE			-8.784	34.382	35.816	28.88		Ċ
ATOM	1844		PHE			-8.871	35.407	34.885	28.20		Ċ
ATOM	1846	С	PHE			-10.712	37.968	31.478	29.75		C
ATOM	1847	0	PHE			-11.339	38.829	32.078	29.51		Ö
ATOM	1848	N	HIS			-10.004	38.225	30.385	30.66		
ATOM	1850	CA	HIS			-9.967	39.556	29.772	31.34		N C
MOTA	1852	CB	HIS			-9.107	39.538	28.498	31.57		Ċ
ATOM	1855	CG	HIS			-8.584	40.887	28.107	33.26		C
MOTA	1856	ND1	HIS			-7.731	41.618	28.914	34.11		И
MOTA	1858		HIS			-7.451	42.766	28.319	35.02		C
MOTA	1860	NE2	HIS	Α	341	-8.087	42.805	27.156	34.36	•	Й
MOTA	1862		HIS			-8.801	41.642	26.998	33.85	•	C
MOTA	1864	C.	HIS			-11.362	40.103	29.461	31.38		Č
MOTA	1865	0	HIS			-11.612	41.293	29.628	31.11		ŏ
MOTA.	1866	N	ARG			-12.261	39.220	29:031	31.76		N
										,	

ATOM	1868	CA	ARG	A 3	342	-13.625	39.597	28.653	1.00	32.13	С
ATOM	1870	CB	ARG	A 3	342	-14.335	38.433	27.951		32.29	Č
MOTA	1873	CG	ARG	А 3	342	-13.904	38.255	26.504		33.17	č
ATOM	1876	CD	ARG	A 3	342	-13.552	36.819	26.123		34.29	Č
MOTA	1879	NE	ARG	A 3	342	-13.140	36.722	24.721		35.20	N
MOTA	1881	CZ	ARG	A 3	342	-12.705	35.612	24.123		35.30	Ċ
MOTA	1882	NH1				-12.602	34.464	24:788		34.47	N
MOTA	1885	NH2	ARG	A 3	342	-12.372	35.656	22.838		36.13	N
MOTA	1888	С	ARG			-14.452	40.034	29.845		31.97	C
ATOM	1889	0	ARG			-15.360	40.857	29.706		32.19	Ō
MOTA	1890	N	ALA			-14.130	39.477	31.008		31.72	N
ATOM	1892	CA	ALA			-14.811	39.807	32.257		31.67	Ċ
ATOM	1894	CB	ALA			-14.631	38.659	33.278		31.71	Č
MOTA	1898	Č	ALA			-14.353	41.135	32.870		31.51	č
ATOM	1899	ō	ALA			-14.768	41.476	33.980		31.63	ő
ATOM	1900	N	GLY			-13.493	41.868	32.166		31.27	N
ATOM	1902	CA	GLY			-13.075	43.197	32.587		31.26	Č
ATOM	1905	C	GLY			-11.712	43.224	33.244			č
ATOM	1906	ŏ	GLY			-11.175	44.296	33.535		31.19	ő
ATOM	1907	N	LEU			-11.147	42.041			31.06	N
ATOM	1909	CA	LEU			-9.919	41.898	34.215		30.88	č
ATOM	1911	CB	LEU			-9.743	40.444	34.681		30.90	c
ATOM	1914	CG	LEU			-10.874	39.685	35.411		29.95	č
ATOM	1916		LEU			-10.279	38.606	36.275		30.17	c
MOTA	1920		LEU			-11.741	40.559	36.257		29.30	c
MOTA	1924	C	LEU			-8.684	42.371	33.426			c
MOTA	1925	ŏ	LEU			-8.472	42.013	32.263		31.10	0
MOTA	1926	N	GLN			-7.915	43.232	34.084		31.43	N
ATOM	1928	CA	GLN			-6.570	43.634	33.675		_	C
MOTA	1930	CB	GLN			-5.902	44.374	34.841		31.89	c
MOTA	1933	CG	GLN			-6.224	45.842	34.993		31.90	c
ATOM	1936	CD	GLN			-5.473	46.429	36.181		31.13	c
MOTA	1937	OE1				-5.278	45.749	37.207		27.79	o
MOTA	1938	NE2				-5.031	47.682	36.040		31.01	N
ATOM	1941	C	GLN			-5.581	42.505	33.303		31.21	C
MOTA	1942	ŏ	GLN			-5.642	41.379	33.823		31.21	
MOTA	1943	N	VAL			-4.626	42.890	32.450		30.55	O N
ATOM	1945	CA	VAL			-3.417	42.125	32.115		29.63	
ATOM	1947	CB	VAL			-2.625	42.877	30.995		29.42	C
ATOM	1949		VAL			-1.342	42.155	30.655		28.92	C
ATOM	1953	CG2	VAL			-3.512	43.083	29.740		29.39	c
ATOM	1957	C	VAL			-2.513	41.962	33.350		28.89	C
· ATOM	1958	ŏ	VAL			-1.935	40.899	33.591		28.20	C 0
ATOM	1959	И	GLU			-2.406	43.050	34.109		28.28	
ATOM	1961	CA	GLU								N
ATOM	1963	CB	GLU			-1.617 -1.819	43.123 44.497	35.329 35.988		28.04 28.17	C
ATOM	1966	CG	GLU			-1.084	45.660	35.318		28.94	C
ATOM	1969	CD	GLU			-1.955	46.586	34.455		30.20	C
ATOM	1970	OE1	GLU			-3.106	46.221	34.132		31.40	C
ATOM	1971	OE2	GLU			-1.478	47.692	34.076		29.15	
ATOM	1972	C	GLU			-1.923	41.997	36.337		27.64	0
ATOM	1973	Õ	GLU			-1.036	41.630	37.096		27.84	C 0
ATOM	1974	N	PHE			-3.159	41.461	36.323			
ATOM	1976	CA	PHE			-3.159	40.339	37.183		26.79 25.66	N
ATOM	1978	CB	PHE			-5.045	40.339	37.163			C
ATOM	1981	CG	PHE			-5.614	39.738	38.709		25.81	C
ATOM	1982		PHE			-4.848	39.738	39.751		24.39	C
ATOM	1984		PHE			-5.424	38.413	40.750		25.08	C
ATOM	1986	CZ	PHE			-6.773	38.075	40.750		26.06	C
ATOM	1988		PHE			-7.545	38.567			24.63	C
ATOM	1990		PHE			-6.963		39.648		24.62	C
411 011	1750				J 3 J	-0.903	39.401	38.672	1.00	24.98	С

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ATOM	1992	C PHE A 349	-3.599	20 040	36 405	
MOTA	1993	O PHE A 349	-3.144		36.483	1.00 25.03
ATOM	. 1994	N ILE A 350	-4.074		37.067	
ATOM	1996	CA ILE A 350	-4.278	38.889	35.235	1.00 24.18
ATOM	1998	CB ILE A 350	-4.933	37.609	34.540	1.00 23.99
ATOM	2000	CG1 ILE A 350	-6.324	37.800	33.128	1.00 24.26
ATOM	2003	CD1 ILE A 350	-6.874	38.448	33. 230	1.00 24.09
MOTA	2007	· CG2 ILE A 350	-5.044	39.041	31.931	
ATOM	2011	C ILE A 350	-3.007	36.428	32.384	1.00 23.98
ATOM	2012	O ILE A 350	-3.006	36.795 35.599	34.367	1.00 24.02
ATOM	2013	N ASN A 351	-1.939		34.602	1.00 23.50
ATOM	2015	CA ASN A 351	-0.691	37.437	33.900	1.00 24.57
ATOM	2017	CB ASN A 351	0.256	36.723 37.568	33.604	
MOTA	2020	CG ASN A 351	-0.263	37.300	32.756 31.365	1.00 24.65
MOTA	2021	OD1 ASN A 351	-0.740	36.809	. 31.303	1.00 24.79
ATOM	2022	ND2 ASN A 351	-0.222	38.982	30.730	1.00 25.11
ATOM	2025	C ASN A 351	0.012	36.151	30.892	1.00 24.98
ATOM	2026	O ASN A 351	0.413	34.991	34.830	1.00 24.62
ATOM	. 2027	N PRO A 352	0.185	36.928	34.802	1.00 24.84
ATOM	2028	CA PRO A 352	0.565	36.314	35.896 37.173	1.00 24.40
MOTA	2030	CB PRO A 352	0.393	37.454	38.176	1.00 24.15
ATOM '	2033	CG PRO A 352	0.645	38.687	37.385	1.00 23.99
ATOM	2036	CD PRO A 352	0.145	38.402	35.981	1.00 23.81
ATOM	2039	C PRO A 352	-0.305	35.097	37.501	1.00 24.27
. ATOM	2040	O PRO A 352	0.268	34.092	37.910	1.00 24.08
ATOM	2041	N ILE A 353	-1.622	35.160	37.281	1.00 24.00 1.00 24.06
ATOM	2043	CA ILE A 353	-2.513	34.032	37.611	1.00 24.06
ATOM	2045	CB ILE A 353	-4.027	34.332	37.278	1.00 24.11
ATOM	2047	CG1 ILE A 353	-4.660	35.407	38.154	1.00 23.92
ATOM	2050	CD1 ILE A 353	-3.813	35.848	39.332	1.00 24.70
ATOM	2054	CG2 ILE A 353	-4.852	33.114	37.471	1.00 24.44
ATOM	2058	C ILE A 353	-2.070	32.773	36.862	1.00 23.97
ATOM	2059	O ILE A 353	-1.991	31.685	37.436	1.00 23.72
ATOM	2060	N PHE A 354	-1.780	32.923	35.576	1.00 23.72
ATOM	2062	CA PHE A 354	-1.463	31.771	34.734	1.00 23.93
ATOM	2064	CB PHE A 354	-1.866	32.054	33.272	1.00 23.88
ATOM	2067	CG PHE A 354	-3.334	31.845	33.018	1.00 24.57
ATOM	2068	CD1 PHE A 354	-4.239	32.879	33.188	1.00 25.04
ATOM ATOM	2070	CE1 PHE A 354	-5.604	32.668	32.990	1.00 25.36
ATOM	2072	CZ PHE A 354	-6.070	31.415	32.643	1.00 25.16
ATOM	2074 2076	CE2 PHE A 354	-5.180	30.369	32.490	1.00 25.40
ATOM	2078	CD2 PHE A 354	-3.819	30.585	32.680	1.00 25.46
ATOM	2079	C PHE A 354 O PHE A 354	-0.001	31.293	34.882	1.00 23.75
ATOM	2080		0.270	30.083	34.804	1.00 23.50
ATOM	2082	N GLU A 355 CA GLU A 355	0.917	32.232	35.123	1.00 23.45
ATOM	2084	CB GLU A 355	2.310	31.906	35.396	1.00 23.77
ATOM	2087	CG GLU A 355	3.191	33.166	35.490	1.00 24.05
ATOM	2090	CD GLU A 355	4.057	33.423	34.254	1.00 25.53
ATOM	2091	OE1 GLU A 355	3.785	34.762	33.557	1.00 26.68
ATOM	2092	OE2 GLU A 355	4.011 3.366	34.839	32.322	1.00 23.23
ATOM	2093	C GLU A 355	2.387	35.736	34.252	1.00 28.60
ATOM	2094	O GLU A 355	2.367	31.116	36.691	1.00 23.77
ATOM	2095	N PHE A 356	1.771	30.045 31.641	36.724	1.00 24.34
ATOM	2097	CA PHE A 356	1.651		37.751	1.00 23.44
ATOM	2099	CB PHE A 356	0.796	30.923 31.718	39.019	1.00 23.10
ATOM	2102	CG PHE A 356	0.654	31.718	40.027	1.00 22.91
MOTA	2103	CD1 PHE A 356	1.719	30.958	41.356	1.00 22.02
MOTA	2105	CE1 PHE A 356	1.597	30.305	42.226 43.438	1.00 20.17
MOTA	2107	CZ PHE A 356	0.424	29.682	43.436	1.00 19.63
MOTA	2109	CE2 PHE A 356	-0.629	29.712	42.920	1.00 19.39 1.00 19.39
		_			-4. JEU	1.00 19.39

ATOM	2111	CD2	PHE	Z \	356	-0.520	30.384	41.708	1.00	20 33		С
ATOM	2113	C	PHE			1.079	29.496	38.863	1.00			č
	2113		PHE			1.585	28.567	39.485	1.00			Ö
ATOM		0					29.340		1.00			
ATOM	2115	N	SER			0.036		38.047	•			. И
ATOM	2117	CA	SER			-0.638	28.052	37.853	1.00			C
MOTA	2119	CB	SER			-1.936	28.239	37.079	1.00			C
MOTA	2122	OG	SER			-2.976	28.664	37.937		26.05		0
MOTA	2124	С	SER			0.200	27.009	37.128	1.00			C
MOTA	2125	0	SER	A	357	0.182	25.831	37.494		24.59		0
ATOM	2126	N	ARG			0.917	27.425	36.088		25.95		N
MOTA	2128	CA	ARG	A	358	1.782	26.483	35.367	1.00	27.12		С
ATOM	2130	CB	ARG	Α	358	1.976	26.867	33.880	1.00	27.46		С
ATOM	2133	CG	ARG	Α	358	3.024	27.913	33.582	1.00	29.56		. C
ATOM	2136	CD	ARG			3.154	28.226	32.100	1.00	31.01		С
ATOM	2139	NE	ARG			2.012	28.996	31.601	1.00	32.84		N
ATOM	2141	CZ	ARG			1.958	30.329	31.508	1.00	33.59		С
ATOM	2142		ARG			2.985	31.089	31.893		33.79		N
ATOM	2145		ARG			0.857	30.907	31.028		33.55		
ATOM	2148	C	ARG			3.103	26.224	36.112		27.17		Ċ
ATOM	2149	Ö	ARG			3.757	25.196	35.886		27.45		ŏ
ATOM	2149	N	ALA			3.460	27.129	37.022		27.10	•	N
	2152		ALA			4.512	26.874	37.990		27.03		Ĉ
ATOM		CA				4.853	28.144	38.735		27.05		Č
ATOM	2154	CB	ALA				25.781	38.969		27.46		C
MOTA	2158	C	ALA			4.075						
ATOM	2159	0	ALA			4.809	24.807	39.187		27.65		0
ATOM	2160	N	MET			2.880	25.933	39.546		27.66		N -
ATOM	2162	CA	MET			2.373	24.975	40.525		28.05		C
ATOM	2164	CB	MET			0.987	25.384	41.046		28.08		C
ATOM	2167	CG	MET			. 0.942	26.547	42.071		27.69		C
MOTA	2170	SD	MET			1.915	26.352	43.592		27.13		S
ATOM	2171	CE	MET			1.595	24.685	44.069		28.65		C
MOTA	2175	С	MET			2.291	23.574	39.927		28.76		С
ATOM	2176	0	\mathtt{MET}	Α	360	2.481	22.576	40.622		28.81		0
ATOM	2177	N	ARG	Α	361	2.014	23.497	38.632		29.78		N
ATOM	2179	CA	ARG	Α	361	1.901	22.209	37.987	1.00	30.55		С
ATOM	2181	CB	ARG	Α	361	1.279	22.306	36.595	1.00	31.44		С
ATOM	2184	CG	ARG	Α	361	0.297	21.164	36.300	1.00	34.83		С
ATOM	2187	CD	ARG	Α	361	-0.993	21.243	37.162	1.00	38.23		С
ATOM	2190	NE	ARG	A	361	-1.927	20.156	36.869	1.00	40.93		N
ATOM	2192	CZ	ARG	Α	361	-2.863	19.711	37.706	1.00	43.79		С
ATOM	2193	NH1	ARG	Α	361	-3.008	20.246	38.929	1.00	44.27		N
ATOM	2196	NH2	ARG	Α	361	-3.661	18.710	37.323	1.00	44.88		N
ATOM	2199	С	ARG			3.246	21.565	37.896	1.00	30.15		С
ATOM	2200	Ō	ARG			3.359	20.371	38.107	1.00	30.69		0
ATOM	2201	N	ARG	_		4.276		37.585	1.00	29.71		N
ATOM	2203	CA	ARG			5.604	21.754	37.443		29.44		С
ATOM	2205	CB	ARG			6.588	22.765	36.849		29.94		C
ATOM	2208	CG	ARG			6.363	23.028	35.349		31.37		Ċ
ATOM	2211	CD			362	7.317	24.070	34.731		33.77		č
ATOM	2214	NE			362	6.811	25.447	34.850		35.63		N
ATOM	2214	CZ			362	7.316	26.403	35.645		36.81		Ĉ
	2217		ARG			8.367	26.174	36.434		36.78		N
ATOM							27.610	35.655		37.45		N
MOTA	2220		ARG			6.744	21.209	38.776		28.50		C
ATOM	2223	C			362	6.099		38.805		28.18		0
ATOM	2224	0			362	7.013	20.396					
ATOM	2225	N			363	5.483	21.656	39.872		27.78		N
ATOM	2227	CA			363	5.747	21.103	41.203		27.03		C
ATOM	2229	CB			363	5.261	22.052	42.294		27.15		C
ATOM	2232	CG			363	6.317		42.901		27.99		C
ATOM	2234		LEU			5.718		44.144		28.97		C
MOTA	2238	CD2	LEU	Α	363	7.639	22.267	43.221	1.00	27.80		С
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ATOM ATOM ATOM ATOM ATOM	2242 2243 2244 2246 2249 2250	C O N CA C	LEU GLY GLY	A A A	363 363 364 364 364 364	-	5.0 5.5 3.9 3.3 2.7 2.9	516 998 311 745	19.760 18.993 19.520 18.232 17.795 16.642	42 40 40 42	.414 .264 .683 .658 .004	1.00 1.00 1.00 1.00	26.11 25.45 25.50 24.98 24.25 23.67	
ATOM ATOM	2251 2253	N CA			365 365		2.0		18.711	42	.703	1.00	23.67	
ATOM	2255	CB			365		1.1		18.436 19.691		.064		23.27 23.36	-
MOTA	2258	CG	LEU	A	365		2.0	81	20.897		.888		23.89	•
ATOM	2260		LEU				1.5		21.799		.021		24.37	
ATOM ATOM	2264 2268	CD2	LEU		365 365		3.5		20.500 17.450		.144		23.24	
ATOM	2269	ŏ			365		-0.1		17.430		.954. .916		22.78 22.26	
MOTA	2270	N	ASP	A	366		0.3	808	16.674		.004		22.71	
MOTA	2272	CA			366		-0.7		15.727		:029		22.95	
ATOM ATOM	2274 2277	CB CG			366 366		-0.3 0.2		14.301		.373		23.14	
ATOM	2278		ASP				-0.1		14.102		.751		23.28 23.31	
ATOM	2279	OD2	ASP	A	366		1.1	.06	13.311		.033		22.90	
ATOM .	2280	C			366		-1.8		16.272		.999	1.00	22.93	
ATOM ATOM	2281 2282	N O			366 367		-1.6		17.377		.495		23.08	
ATOM	2284	CA			367		-2.8 -3.9		15.515 16.038		.268		22.85 23.13	
ATOM	2286	CB	ASP	Α	367		-5.0		15.076		.957		23.79	
ATOM	2289	CG	ASP	A	367		-5.7		15.134	45	.615	1.00	26.26	
ATOM ATOM	2290 2291		ASP				-5.4		16.052		.832		29.21	
ATOM	2292	C	ASP		367		-6.6 -3.6		14.327 16.285		.278 .513		29.18 22.72	
ATOM	2293	ō			367		-4.0		17.240		.098		23.37	
ATOM	2294	N			368		-2.7	82	15.427		.105	1.00	22.13	
ATOM	2296	CA			368		-2.3		15.625		.473		21.71	
ATOM ATOM	2298 2302	CB C			368 368		-1.5 -1.4		14.398 16.880		.954 .618		21.22 22.03	
ATOM	2303	ŏ			368		-1.4		17.563		.641		22.03	
MOTA	2304	N	GLU	Α	369		-0.6	28	17.179		.599		21.94	
ATOM	2306	CA			369		0.2		18.310		.650		21.54	
ATOM ATOM	2308 2311	CB CG			369 369		1.3 2.3		18.159		.582		21.65	
ATOM	2314	CD			369		3.3		17.068 16.706		.907 .741		21.25 22.31	
ATOM	2315	OE1	GLU	A	369		4.5	24	16.482		.989		24.33	
ATOM	2316	OE2	GLU				2.8	47	16.614		.580		19.72	
ATOM ATOM	2317 2318	0 .	. GTA GTA		369		-0.4		19.627		.512		21.69	
ATOM	2319	N	TYR				-0.3 -1.2		20.493	_	.340 .473		21.18 22.31	
MOTA	2321	CA	TYR				-2.2		20.909		.342		22.52	
ATOM	2323	CB	TYR				-3.2		20.707		.191	1.00	22.75	
ATOM ATOM	2326 2327	CG CD1	TYR TYR				-2.8		21.366		.907		25.00	
ATOM	2329	CE1	TYR				-2.4		20.594 21.185		.801 .605		27.31 27.13	
ATOM	2331	CZ	TYR	Α	370		-1.9		22.573		.495		28.06	
ATOM	2332	OH	TYR				-1.5	40	23.144	42	.305	1.00	28.74	
ATOM ATOM	2334 2336	CE2 CD2	TYR TYR	A	370		-2.3	33	23.373		.580		27.58	
ATOM	2338	CDZ	TYR				-2.7 -2.9		22.756 21.160		.786 .616		26.97 22.24	
ATOM	2339	ō	TYR				-3.0		22.293		.059		22.15	
ATOM	2340	N	ALA				-3.6	05	20.120	50	.179	1.00	22.32	
ATOM ATOM	2342	CA	ALA				-4.4		20.293		.395		22.38	
ATOM	2344 2348	CB C	ALA ALA				-5.0		18.983 20.842		.810 .558	1.00	22.91 22.05	
ATOM	2349	ŏ	ALA				-4.0		21.783		.221		22.36	
		•			•									

ATOM	2350	N	LEU	A 372	-2.423	20.264	52.788	1 00 01 10	
ATOM	2352	CA		A 372	-1.548	20.728	53.842	1.00 21.19	N
ATOM	2354	CB		A 372	-0.337	19.796		1.00 20.94	C
ATOM	2357	CG		A 372	-0.525		54.003	1.00 20.87	C
ATOM	2359		LEH	A 372	0.647	18.493	54.795	1.00 21.04	C
ATOM	2363			A 372		17.533	54.603	1.00 21.62	C
ATOM	2367	C		A 372	-0.718	18.807	56.263	1.00 20.65	C
ATOM					-1.076	22.161	53.583	1.00 21.01	C
ATOM	2368	0		A 372	-0.946	22.924	54.517	1.00 21.41	0
	2369	N		A 373	-0.814	22.537	52.330	1.00 20.84	N
ATOM	2371	CA		A 373	-0.300	23.880	52.027	1.00 20.73	C
ATOM	2373	CB		A 373	0.039	24.071	50.541	1.00 20.52	Ċ
ATOM	2376	CG	LEU	A 373	1.497	24.213	50.098	1.00 23.13	č
ATOM	2378	CD1	LEU	A 373	1.572	24.764	48.623	1.00 24.98	Č
ATOM	2382		LEU	A 373	2.362	25.070	51.047	1.00 23.54	č
ATOM	2386	С		A 373	-1.389	24.855	52.418	1.00 20.65	Č
ATOM	2387	0		A 373	-1.126	25.974	52.905	1.00 20.59	ō
MOTA	2388	N	ILE	A 374	-2.622	24.424	52.192	1.00 20.20	Ŋ
ATOM	2390	CA	ILE	A 374	-3.734	25.283	52.438	1.00 20.59	
ATOM	2392	CB	ILE	A 374	-4.983	24.733	51.747	1.00 21.07	· C
ATOM	2394	CG1	ILE	A 374	-4.884	25.002	50.231	1.00 21.83	
ATOM	2397			A 374	-5.961	24.254	49.403	1.00 21.74	C
ATOM	2401	CG2		A 374	-6.275	25.365	52.303	1 00 20 76	C
ATOM	2405	С	TLE	A 374	-3.886	25.464		1.00 20.76	C
ATOM	2406	Ö		A 374	-4.139	26.567	53.945	1.00 20.73	С
ATOM	2407	N		A 375	-3.702		54.424	1.00 20.91	0
ATOM	2409	CA		A 375		24.393	54.697	1.00 20.78	. N
ATOM	2411	CB		A 375	-3.782 -3.617	24.473	56.148	1.00 20.75	C
ATOM	2415	c		A 375		23.067	56.772	1.00 20.83	С
ATOM	2416	ŏ		A 375	-2.715	25.434	56.682	1.00 20.38	C
ATOM	2417	N		A 376	-2.988	26.241	57.574	1.00 20.16	0
ATOM	2419	CA			-1.517	25.336	56.113	1.00 19.84	N
MOTA	2421	CB		A 376	-0.377	26.141	56.543	1.00 20.41	C
ATOM				A 376	0.897	25.644	55.826	1.00 20.33	C
ATOM	2423	CG1		A 376	1.370	24.310	56.403	1.00 19.99	С
	2426			A 376	2.304	23.568	55.506	1.00 20.71	C
ATOM	2430	CG2		A 376	1.986	26.677	55.945	1.00 20.98	Ċ
ATOM	2434	C		A 376	-0.600	27.647	56.236	1.00 20.55	Ċ
ATOM	2435	0		A 376	-0.224	28.543	57.002	1.00 19.68	ō
ATOM	2436	N		A 377	-1.225	27.878	55.088	1.00 20.81	N
ATOM	2438	CA		A 377	-1.513	29.200	54.614	1.00 21.04	C
ATOM	2440	CB		A 377	-1.989	29.136	53.153	1.00 21.22	č
ATOM	2443	CG		A 377	-2.338	30.505	52.598	1.00 22.27	· c
ATOM	2444	OD1	ASN A	A 377	-3.408	31.081	52.914	1.00 24.56	ő
MOTA	2445		ASN Z	A 377	-1.448	31.043	51.798	1.00 20.25	N
ATOM	2448	С		A 377 ·	-2.541	29.862	55.512	1.00 20.84	C
MOTA	2449	0		A 377	-2.489	31.089	55.740	1.00 20.38	Ö
MOTA	2450	N		A 378	-3.462	29.053	56.034	1.00 21.08	
ATOM	2452	CA	ILE A	A 378	-4.529	29.562	56.892	1.00 21.21	N
ATOM	2454	CB	ILE A	A 378	-5.634	28.531	57.127	1.00 21.70	C
MOTA	2456	CG1	ILE A	A 378	-6.486	28.327	55.853	1.00 20.73	C
ATOM	2459	CD1	ILE A	A 378	-7.264	27.065	55.878	1.00 20.73	C
ATOM	2463		ILE A	A 378	-6.544	28.984	58.301	1.00 19.57	C
MOTA	2467	С		A 378	-3.961	30.003	58.203		C
MOTA	2468	0	ILE A		-4.394	31.034		1.00 21.49	. C
MOTA	2469	N		A 379	-2.974	29.263	58.713	1.00 21.85	0
ATOM	2471	CA		A 379	-2.409		58.733	1.00 21.69	N
ATOM	2473	CB		A 379	-2.147	29.556	60.067	1.00 21.80	C
ATOM	2476	CG	PHE A			28.276	60.911	1.00 21.76	С
ATOM	2477		PHE A	270	-3.395 -3.511	27.467	61.220	1.00 20.36	C
ATOM	2479	CEI	PHE A	370	-3.511	26.143	60.786	1.00 18.89	С
ATOM	2481	CZ	PHE A		-4.645 -5.693	25.422	61.064	1.00 19.73	C
ATOM	2483		PHE F	370	-5.682 -5.682	25.999	61.769	1.00 18.74	С
		عندب	4 11E F	313	- 5.569	27.309	62.205	1.00 19.76	C
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MOTA	2485	CD2 PHE A 379	-4.436	28.028	61.937	1.00 18.90
MOTA	2487	C PHE A 379	-1.139	30.352	59.931	1.00 22.55
ATOM	-2488	O PHE A 379	∸0.090	29.996	60.482	1.00 22.46
MOTA	2489	N SER A 380	-1.243	31.458	59.209	1.00 23.76
ATOM	2491	CA SER A 380	-0.127	32.382	59.072	1.00 24.35
MOTA	2493	CB SER A 380	-0.124	33.029	57.692	1.00 24.13
MOTA	2496	OG SER A 380	-0.345	32.064	56.683	1.00 23.05
ATOM	2498	C SER A 380	-0.309	33.418	60.160	1.00 25.51
ATOM	2499	O SER A 380	-1.213	34.264	60.083	1.00 26.09
ATOM	2500	N ALA A 381	0.531	33.340	61.188	1.00 26.69
ATOM	2502	CA ALA A 381	0.394	34.212	62.362	1.00 27.65
MOTA	2504	CB ALA A 381	1.430	33.806	63.463	1.00 27.30
ATOM	2508	C ALA A 381	0.475	35.749	62.051	1.00 28.30
ATOM	2509	O ALA A 381	0.037	36.573	62.889	1.00 28.65
MOTA	. 2510	N ASP A 382	0.996	36.122	60.867	1.00 28.16
ATOM	2512	CA ASP A 382	1.318	37.531	60.572	1.00 28.54
ATOM	2514	CB ASP A 382	2.667	37.575	59.922	1.00 28.78
ATOM	2517	CG ASP A 382	2.584	37.247	58.492	1.00 29.48
ATOM	2518	OD1 ASP A 382	2.104	36.136	58.165	1.00 26.57
ATOM	2519	OD2 ASP A 382	2.930	38.082	57.641	1.00 34.31
MOTA	2520	C ASP A 382	0.313	38.290	59.662	1.00 28.41
ATOM	2521	O ASP A 382	0.647	39.262	58.988	1.00 29.03
ATOM	2522	N ARG A 383	-0.926	37.830	59.647	1.00 27.87
ATOM	2524	CA ARG A 383	-1.977	38.477	58.903	1.00 26.83
ATOM	2526		-3.180	37.536 [.]	58.794	1.00 26.90
ATOM	2529	CG ARG A 383	-2.886	36.172	58.168	1.00 24.71
ATOM	2532	CD ARG A 383	-2.247		56.835	1.00 22.46
ATOM	2535	NE ARG A 383	-2.429	35.078	56.039	1.00 22.63
MOTA	2537	CZ ARG A 383	-2.277	35.011	54.710	1.00 21.78
ATOM ATOM	2538	NH1 ARG A 383	-1.911	36.096	54.033	1.00 22.59
ATOM	2541 2544	NH2 ARG A 383	-2.485	33.864	54.054	1.00 20.10
ATOM	2545	C ARG A 383	-2.364	39.711	59.685	1.00 26.73
ATOM	2546	O ARG A 383 N PRO A 384	-2.115	39.785	60.871	1.00 26.44
ATOM	2547	N PRO A 384 CA PRO A 384	-2.949 -3.443	40.699	59.029	1.00 26.91
ATOM	2549	CB PRO A 384		41.871	59.740	1.00 26.93
ATOM	2552	CG PRO A 384	-4.153 -3.746	42.678 42.114	58.656	1.00 26.92
ATOM	2555	CD PRO A 384	-3.150	40.806	57.368	1.00 26.82
ATOM	2558	C PRO A 384	-4.441	41.457	57.577	1.00 27.16
ATOM	2559	O PRO A 384	-5.121	40.441	60.795 60.606	1.00 26.78
ATOM	2560	N ASN A 385	-4.493	42.233	61.874	1.00 26.63 1.00 26.52
ATOM	2562	CA ASN A 385	-5.530	42.137	62.905	
ATOM	2564	CB ASN A 385	-6.920	42.470	62.317	1.00 26.44 1.00 26.43
ATOM	2567	CG ASN A 385	-7.051	43.921	61.879	1.00 25.91
MOTA	2568	OD1 ASN A 385		44.828	62.419	1.00 25.48
MOTA	2569	ND2 ASN A 385	-7.913	44.148	60.907	1.00 24.36
MOTA	2572	C ASN A 385	-5.600	40.827	63.702	1.00 26.20
MOTA	2573	O ASN A 385	-6.591	40.589	64.387	1.00 26.57
ATOM	2574	N VAL A 386	-4.553	40.007	63.661	1.00 25.70
MOTA	2576	CA VAL A 386	-4.521	38.785	64.451	1.00 25.44
ATOM	2578	CB VAL A 386	-3.567	37.770	63.833	1.00 25.52
ATOM	2580	CG1 VAL A 386	-3,157	36.694	64.848	1.00 26.16
ATOM	2584	CG2 VAL A 386	-4.232	37.137	62.635	1.00 25.40
ATOM	2588	C VAL A 386	-4.149	39.078	65.905	1.00 25.38
MOTA	2589	O VAL A 386	-3.061	39.545	66.197	1.00 25.07
ATOM	2590	N GLN A 387	-5.073	38.791	66.811	1.00 25.79
ATOM	2592	CA GLN A 387	-4.911	39.093	68.229	1.00 26.17
ATOM	2594	CB GLN A 387	-6.295	39.216	68.904	1.00 26.48
ATOM ATOM	2597 2600	CG GLN A 387	-7.088	40.481	68.475	1.00 28.11
ATOM	2601	CD GLN A 387 OE1 GLN A 387	-8.426	40.650	69.216	1.00 31.36
211 OL3	5 00 T	OPT GPIN W 28 /	-8.449	40.881	70.443	1.00 31.98

ATOM	2602	NE2	GLN	A	387	-9.542	40.555	68.471	1.00 32.05	N
ATOM	2605	С	GLN			-4.007	38.089	68.953	1.00 25.93	С
ATOM	2606	0	GLN			-3.273	38.469	69.861	1.00 25.80	0
ATOM ATOM	2607 2609	N	GLU			-4.033	36.827	68.517	1.00 25.99	
ATOM	2611	CA CB	GLU GLU			-3.272 -4.235	35.729 34.652	69.146 69.672	1.00 26.03 1.00 26.23	C
ATOM	2614	CG	GLU			-5.309	35.179	70.609	1.00 20.23	_
ATOM	2617	CD	GLU			-5.828	34.133	71.581	1.00 28.08	
ATOM	2618		GLU			-6.191	33.011	71.159	1.00 28.82	
ATOM	2619	OE2	GLU			-5.901	34.448	72.780	1.00 29.76	
MOTA	2620	С	GLU	Α	388	-2.269	35.065	68.192	1.00 25.65	
MOTA	2621	0	GLU			-2.452	33.901	67.811	1.00 25.73	0
MOTA	2622	N	PRO			-1.220	35.789	67.800	1.00 25.08	
ATOM	2623	CA	PRO			-0.245	35.269	66.836	1.00 24.68	
MOTA	2625	CB	PRO			0.675	36.475	66.599	1.00 24.77	
ATOM ATOM	2628 2631	CG CD	PRO PRO			0.514 -0.897	37.324	67.759	1.00 24.58	
ATOM	2634	CD			389	0.559	37.167 34.059	68.208 67.322	1.00 24.91 1.00 24.43	-
ATOM	2635	Ö			389	0.934	33.206	66.520	1.00 24.43	
ATOM	2636	N	GLY			0.835	34.001	68.620	1.00 24.20	
MOTA	2638	CA	GLY			1.469	32.842	69.227	1.00 24.29	
MOTA	2641	С	GLY			0.642	31.565	69.086	1.00 24.54	
MOTA	2642	0	GLY			1.192	30.507	68.758	1.00 24.52	0
MOTA	2643	N	ARG			-0.674	31.649	69.311	1.00 24.39	
MOTA	2645	CA	ARG			-1.537	30.480	69.177	1.00 24.60	
ATOM	2647	CB	ARG			-2.937	30.728	69.739	1.00 24.91	
ATOM ATOM	2650 2653	CG CD	ARG ARG			-2.931	31.219	71.174	1.00 28.18	
ATOM	2656	NE	ARG			-4.110 -5.295	30.745 30.355	72.041 71.260	1.00 32.93 1.00 36.71	
MOTA	2658	CZ			391	-5.933	29.178	71.363	1.00 36.71	= -
ATOM	2659		ARG			-5.504	28.232	72.215	1.00 43.07	
MOTA	2662		ARG			-7.015	28.936	70.607	1.00 40.78	
MOTA	2665	С	ARG			-1.640	30.049	67.726	1.00 24.04	
MOTA	2666	0			391	-1.743	28.855	67.445	1.00 24.57	
MOTA	2667	N			392	-1.610	31.004	66.802	1.00 23.34	
ATOM	2669	CA			392	-1.699	30.675	65.385	1.00 22.50	
ATOM	2671	CB			392	-2.007	31.906	64.539	1.00 22.35	
ATOM ATOM	2673 2677	CG2	VAL VAL			-1.875 -3.413	31.590 32.420	63.059 64.865	1.00 21.93 1.00 22.07	
ATOM	2681	CGZ			392	-0.410	30.014	64.928	1.00 22.07	
ATOM	2682	ŏ			392	-0.459	29.037	64.197	1.00 22.23	
ATOM	2683	N			393	0.741	30.505	65.375	1.00 22.38	
MOTA	2685	CA	GLU	Α	393	2.000	29.902	64.929	1.00 23.18	
ATOM	2687	CB	GLU	Α	393	3.233	30.735	65.318	1.00 23.56	C
ATOM	2690	CG			393	4.539	30.125	64.805	1.00 24.92	С
ATOM	2693	CD			393	5.749	31.038	64.954	1.00 27.27	
ATOM	2694	OE1				6.631	31.069	64.069	1.00 30.57	
ATOM ATOM	2695 2696	OE2 C			393	5.849	31.703	65.977	1.00 30.03	
MOTA	2697	Ö			393 393	2.160 2.738	28.460 27.617	65.429 64.729	1.00 23.15 1.00 23.90	
ATOM	2698	N			394	1.640	28.177	66.623	1.00 23.56	
ATOM	2700	CA			394	1.704	26.839	67.180	1.00 21.86	
ATOM	2702	CB			394	1.337	26.847	68.667	1.00 21.66	
MOTA	2706	С			394	0.794	25.919	66.389	1.00 21.49	
ATOM	2707	0			394	1.110	24.758	66.206	1.00 20.85	0
MOTA	2708	N			395	-0.344	26.425	65.915	1.00 21.67	N
ATOM	2710	CA			395	-1.212	25.612	65.037	1.00 21.93	
ATOM	2712	CB			395	-2.577	26.268	64.833	1.00 22.07	
MOTA MOTA	2715 2717	CG CD1			395	-3.454 -4.753	26.406	66.085	1.00 23.60	
ATOM	2721		LEU			-4.753 -3.770	27.161 25.073	65.747 66.709	1.00 23.46 1.00 24.27	
011	<u>د ، د به</u>		بند		393	-3.770	23.073	00.709	1.00 24.27	<u> </u>

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ATOM	2725	С	LEU	Α	395	-0.548	25.304	63.672	1.00 2	21 30		С
ATOM	2726	ō .			395	-0.693	24.209	63.134				
									1.00 2			0
MOTA	2727	N			396	0.208	26.256	63.145	1.00 2	21.27		N
MOTA	2729	CA	GLN	Α	396	0.908	26.020	61.893	1.00 2	21.75		С
ATOM	2731	CB	GLN	Α	396	1.681	27.246	61.426	1.00 2	1 90		Ċ
ATOM	2734	CG			396	1.919	27.177					_
								59.945	1.00 2			С
ATOM	2737	CD			396	2.598	28.386	59.409	1.00 2	21.70		С
MOTA	2738	OE1	GLN	Α	396	2.052	29.057	58.532	1.00 2	24.11		0
ATOM	2739	NE2			396	3.787	28.674	59.903	1.00			
												N
ATOM	2742	C			396	1.878	24.871	61.995	1.00 2			C
ATOM	2743	0	GLN	A	396	1.908	23.996	61.128	1.00 2	21.54		0
ATOM	2744	N	GLN	Α	397	2.641	24.879	63.080	1.00 2	21.23		N
ATOM	2746	CA			397	3.788	23.997	63.248	1.00 2			
												C
ATOM	2748	СВ			397	4.347	24.082	64.680	1.00 2			С
MOTA	2751	CG	GLN	Α	397	5.532	23.159	64.942	1.00 2	24.36		С
ATOM	2754	CD	GLN	Α	397	6.140	23.289	66.353	1.00 2	28.63		С
ATOM	2755	OE1			397	6.069	24.359	66.995	1.00 3			ő
MOTA	2756	NE2			397	6.758	22.198	66.827	1.00 2			N
ATOM	2759	C	GLN	Α	397	3.538	22.563	62.834	1.00 1	19.99		C
ATOM	2760	0	GLN	Α	397	4.297	22.055	62.042	1.00 1	9.80		0
ATOM	2761	N			398	2.528	21.894	63.383	1.00 1			
												N
ATOM	2762	CA			398	2.304	20.475	63.055	1.00 1			С
MOTA	2764	CB	PRO	A	398	1.093	20.046	63.,932	1.00	L8.97		С
ATOM	2767	CG	PRO	A	398	0.577	21.261	64.580	1.00 1	19.38		С
ATOM	2770	CD	PRO	Α	398	1.579	22.373	64.401	1.00			č
ATOM	2773	c			398	2.017	20.226	61.599	1.00			~
												C
ATOM	2774	0			398	2.396	19.166	61.131	1.00 1			0
ATOM	2775	N	TYR	Ą	399	1.362	21.149	60.913	1.00 1	L8.36	•	N
ATOM	2777	CA	TYR	Α	399	1.100	20.973	59.479	1.00 1	L9.20		С
ATOM	2779	CB			399	0.005	21.966	59.000	1.00 1			Č
ATOM	2782	CG			399	-1.355	21.732	59.618	1.00			~
												С
ATOM	2783	CD1			399	-1.829	22.549	60.636	1.00 1		•	С
ATOM	2785	CE1	TYR	A	399	-3.057	22.320	61.232	1.00 1	17.80		С
ATOM	2787	CZ	TYR	Α	399	-3.841	21.272	60.800	1.00 1	18.18		С
ATOM	2788	OH			399	-5.081	21.058	61.386	1.00 1			ō
ATOM	2790	CE2	TYR			-3.391	20.443	59.796				Š
									1.00 1			C
ATOM	2792	CD2				-2.153	20.671	59.218	1.00 1			С
ATOM	2794	С	TYR	Α	399	2.412	21.095	58.637	1.00 1	19.46		С
ATOM	2795	0	TYR	Α	399	2.678	20.332	57.704	1.00 1	19.29		Ο.
ATOM	2796	N	VAL	А	400	3.248	22.051	58.999	1.00 2			N
ATOM	2798	CA	VAL			4.576	22.150	58.401	1.00 2			
												С
ATOM	2800	CB			400	5.335	23.373	58.923	1.00 1			. C
ATOM	2802	CG1	VAL	A	400	6.693	23.459	58.264	1.00 2	20.63		C
ATOM	2806	CG2	VAL	Α	400	4.545	24.631	58.611	1.00 1	8.88		С
ATOM	2810	С	VAL	Δ	400	5.356	20.856	58.610	1.00 2			č
	2811	_										
MOTA		0	VAL			5.874	20.301	57.662	1.00 1			0
MOTA	2812	N	GĻU			5.385	20.383	59.851	1.00 2	20.78		N
MOTA	2814	CA	GĽU	Α	401	5.907	19.053	60.237	1.00 2	21.23		С
ATOM	2816	CB	GLU			5.662	18.795	61.744	1.00 2			Č
ATOM	2819	CG	GLU			6.803	19.248					
	2822							62.663	1.00 2			C
ATOM		CD	GLU			6.540	19.034	64.151	1.00 2			С
ATOM	2823	OE1	GLΰ	A	401	7.129	19.744	64.999	1.00 2	28.12		0
ATOM .	2824	OE2	GLU	Α	401	5.746	18.144	64.479	1.00 2	29.48		0
ATOM	2825	C	GLU			5.334	17.886	59.407	1.00 2			Č
ATOM	2826	ŏ										
			GLU			6.073	17.001	58.972	1.00 2		•	0
MOTA	2827		ALA			4.023	17.889	59.188	1.00 2		•	Ŋ
MOTA	2829	CA	ALA	Α	402	3.365	16.817	58.442	1.00 2	20.68		С
ATOM	2831	CB	ALA			1.869	16.916	58.596	1.00 2			č
ATOM	2835	C	ALA			3.744	16.876	56.978	1.00 2			~
ATOM	2836	õ										C
			ALA			3.914	15.863	56.324	1.00 2			0
MOTA	2837	N	LEU	A	403	3.896	18.085	56.464	1.00 2	T.85		N
•												

7.00	0000				•			•	
ATOM	2839	CA		A 403	4.295	18.257	55.078	1.00 22.32	С
ATOM	2841	CB		A 403	4.143	19.707	54.644	1.00 22.16	č
ATOM	2844	CG		A 403	4.369	19.853	53.144	1.00 21.61	č
ATOM	2846	CDI	LEU A	A 403	3.587	18.856	52.322		č
ATOM	2850		LEU A		3.947	21.218	52.799	1.00 22.87	Č
ATOM	2854	C		A 403	5.733	17.827	54.892	1.00 22.58	Č
ATOM	2855	0		A 403	6.058	17.156	53.943	1.00 22.65	ő
ATOM	2856	N	LEU A		6.578	18.222	55.831	1.00 22.95	N
ATOM	2858	CA	LEU A		7.988	17.888	55.804	1.00 23.22	Ċ
ATOM	2860	CB	LEU A		8.680	18.526	57.003	1.00 23.73	Č
ATOM ATOM	2863	CG	LEU A	4 404	10.167	18.248	57.246	1.00 25.22	c
ATOM	2865 2869		LEU A		10.988	18.355	55.960	1.00 26.22	C
ATOM	2873		LEU A		10.661	19.235	58.317	1.00 25.99	С
ATOM	2874	C		404	8.186	16.389	55.807	1.00 22.91	C
ATOM	2875	N 0	LEU A		8.788	15.852	54.905	1.00 23.02	0
ATOM	2877	CA	SER A		7.683	15.710	56.825	1.00 23.04	N
MOTA	2879	CB	SER A		7.651	14.251	56.821	1.00 23.28	С
ATOM	2882	OG	SER A		6.783	13.714	57.965	1.00 23.37	C
ATOM	2884	C	SER F		7.253	14.169	59.216	1.00 25.09	. 0
ATOM	2885	Õ	SER F		7.110	13.688	55.498	1.00 23.06	С
ATOM	2886	N	TYR F		7.705	12.763	54.935	1.00 22.72	0
ATOM	2888	CA	TYR F		5.997	14.249	55.006	1.00 22.61	N
ATOM	2890	CB	TYR A		5.317	13.678	53.848	1.00 22.23	С
ATOM	2893	CG	TYR A		3.977 3.146	14.351	53.587	1.00 22.04	С
ATOM	2894	CD1			2.099	13.720	52.472	1.00 21.34	C
ATOM	2896	CE1			1.331	12.831 12.293	52.747 51.734	1.00 20.83	С
ATOM	2898	CZ		406.	1.620	12.628		1.00 18.73	С
MOTA	2899	ОН	TYR A		0.919	12.123	50.449 49.410	1.00 19.07	C
MOTA	2901	CE2			2.631	13.484	50.154	1.00 19.33 1.00 20.65	0
ATOM	2903	CD2			3.380	14.035	51.155	1.00 20.83	C
MOTA	2905	С	TYR A		6.178	13.752	52.607	1.00 20.77	C
MOTA	2906	0	TYR A		6.249	12.785	51.862	1.00 22.21	C
MOTA	2907	N	THR A	407	6.837	14.885	52.396	1.00 22.35	0
ATOM	2909	CA	THR A	407	7.634	15.110	51.190	1.00 22.78	N
ATOM	2911	CB	THR A		7.900	16.620	50.935	1.00 22.45	C
ATOM	2913	OG1	THR A	407	8.488	17.222	52.080	1.00 21.50	0
ATOM	2915	CG2	THR A	407	6.593	17.407	50.770	1.00 22.13	C
ATOM	2919	C	THR A		8.932	14.351	51.263	1.00 23.93	C
ATOM	2920	0	THR A		9.482	13.979	50.241	1.00 23.74	Ö
ATOM	2921	N	ARG A		9.405	14.112	52.480	1.00 25.87	N
ATOM	2923	CA	ARG A		10.599	13.294	52.710	1.00 27.83	Ċ
ATOM	2925	CB	ARG A		10.933	13.250	54.213	1.00 28.51	č
ATOM	2928	CG	ARG A		12.394	13.539	54.562	1.00 31.44	č
MOTA	2931	CD	ARG A		12.882	12.825	55.833	1.00 35.67	C
ATOM ATOM	2934 2936	NE CZ	ARG A		14.329	12.997	56.069	1.00 39.51	Ŋ
ATOM	2936	CZ	ARG A	408	14.903	14.064	56.646	1.00 41.72	C
ATOM	2937	MHT	ARG A	408	14.166	15.110	57.068	1.00 43.38	N
ATOM	2943	NH2	ARG A	408	16.227	14.090	56.794	1.00 40.97	N
ATOM	2943		ARG A		10.376	11.867	52.188	1.00 28.38	C
ATOM	2945		ARG A		11.152	11.347	51.398	1.00 28.05	0
ATOM	2947	N CA	ILE A		9.281	11.268	52.642	1.00 29.53	N
ATOM	2949	CB	ILE A		8.872	9.924	52.265	1.00 30.35	С
ATOM	2951		ILE A		7.666	9.467	53.175	1.00 30.47	С
ATOM	2954		ILE A	400	8.186	8.932	54.520	1.00 31.08	С
ATOM	2958		ILE A		7.398	9.410	55.744	1.00 31.67	C
ATOM	2962		ILE A		6.795 8.557	8.411	52.500	1.00 30.57	С
ATOM	2963		ILE A		9.217	9.837	50.761	1.00 31.14	C
ATOM	2964		LYS A		7.589	9.071 10.624	50.071	1.00 31.25	0
ATOM	2966		LYS A		7.123	10.524	50.259	1.00 32.00	Ŋ
					,,,23	10.041	48.850	1.00 32.62	С
								·····	

								•							
ATOM	2968	СВ	LYS	Α	410		6.127	11.667	48.526	7: 00	32.88				~
ATOM	2971	CG	LYS	A	410		5.514	11.602	47.095		33.17				C
MOTA	2974	CD	LYS	A	410		4.444	12.698	46.841		33.49				C
ATOM	2977	CE	LYS	Ą	410		4.438	13.174	45.378		33.29			•	Č
ATOM	2980	NZ	LYS				3.211	13.935	45.003		32.16				N
ATOM .	2984	С	LYS				8.273	10.609	47.841		33.12			•	Ĉ
MOTA	2985	0	LYS				8.434	9.725	46.983		33.01				ŏ
ATOM	2986	N	ARG				9.053	11.679	47.948		33.44				N
ATOM	2988	CA	ARG	Α	411		10.242	11.862	47.136		33.71		•		Ĉ
ATOM	2990	CB	ARG	Α	411		10.072	13.060	46.168		34.06	•			č
ATOM	2993	CG	ARG				8.655	13.228	45.502		35.84				č
MOTA	2996	CD	ARG	A	411		8.454	12.449	44.177		38.37				č
ATOM	2999	NE	ARG	A	411		7.134	12.657	43.528		40.21				N
ATOM	3001	CZ	ARG				6.559	11.815	42.631		40.45				Ĉ
ATOM	3002		ARG				7.155	10.684	42.253		40.72				N
ATOM	3005		ARG				5.373	12.106	42.103		39.93				N
ATOM	3008	С	ARG				11.444	12.014	48.097		33.34		٠		C
ATOM	3009	0	ARG				11.789	13.111	48.527		33.43				ō
MOTA	3010	N	PRO				12.056	10.898	48.466		33.09.				N
MOTA	3011	CA	PRO				13.202	10.927	49.385	1.00	33.19				·C
ATOM	3013	CB	PRO				13.501	9.432	49.658	1.00	33.32			•	C
MOTA	3016	CG	PRO				12.716	8.619	48.647	1.00	33.16			•	C
ATOM	3019	CD	PRO				11.714	9.535	48.021		33.23				С
ATOM	3022	C	PRO				14.437	11.621	48.813	1.00	33.22				С
ATOM	3023	0	PRO				15.207	12.229	49.575	1.00	33.03				0
ATOM	3024	N	GLN				14.607	11.535	47.493	1.00	33.27				N
ATOM	3026	CA	GLN				15.813	12.018	46.816		33.09				C
ATOM	3028	CB	GLN				16.368	10.897	45,909		33.13				C
ATOM ATOM	3031	CG	GLN				17.255	9.849	46.660		33.32				C
ATOM	3034 3035	CD OF1	GLN .				16.721	8.408	46.605		33.28				C
ATOM	3036	MES	GLN GLN	A	413		15.538	8.160	46.850		33.33				0
ATOM	3039	C	GLN				17.601	7.463	46.295		32.31				N
ATOM	3040	Ö	GLN.				15.544	13.340	46.054		32.88				С
ATOM	3041	N	ASP .				16.138	13.603	45.005		32.60				0
ATOM	3043	CA	ASP .				14.645 14.329	14.161	46.612		32.60		•		N
ATOM	3045	CB	ASP .				13.086	15.503	46.099		32.36				C
ATOM	3048	CG	ASP .				12.688	15.429	45.214		32.54				C
ATOM	3049		ASP .	A	414		13.470	16.774 17.767	44.593 44.614		33.50				C
ATOM	3050	OD2	ASP	A	414		11.566	16.899	44.048		33.77				0
ATOM	3051	С	ASP .				14.136	16.463	47.295	1.00	34.43 31.92	•			0
ATOM	3052	0	ASP				13.025	16.679	47.774	1 00	31.71				C
ATOM	3053	N	GLN				15.249	17.024	47.766	1 00	31.57				0
MOTA	3055	CA	GLN :				15.298	17.798	49.011	1 00	31.04				N C
ATOM	3057	CB	GLN :	A	415	•	16.736	17.897	49.508		31.40				
ATOM	3060	CG	GLN :				17.240	16.632	50.162		32.60				C .
ATOM	3063	CD	GLN I	A	415		18.712	16.677	50.389		33.34				c
MOTA	3064	OE1	GLN A	A	415		19.190	17.423	51.249		34.47				Ö
ATOM	3065	NE2	GLN 3	A	415		19.450	15.903	49.607		34.47				N
ATOM	3068	С	GLN 2	A	415		14.771	19.203	48.848		30.16				C
ATOM	3069	0	GLN A				14.345	19.817	49.821		29.98				õ
MOTA	3070	N	LEU Z				14.820	19.722	47.626		29.18	•			N
ATOM	3072	CA	LEU 1				14.357	21.082	47.378		28.42				C.
ATOM	3074	CB	LEU A	Α	416		15.154	21.726	46.236		28.17				C
ATOM	3077	CG	LEU 2	Ą	416		16.586	22.199	46.523		27.41				Č
ATOM	3079	CD1	LEU 2	A	416		16.934	23.258	45.535		27.48				Č
ATOM	3083		LEU I				16.809	22.721	47.931		26.83				.C
ATOM	3087	C	LEU A				12.850	21.174	47.110		27.89				Ċ
ATOM	3088	0	LEU Z			•	12.302	22.268	47.082		27.47				ŏ
ATOM	3089		ARG A				12.191	20.037	46.920	1.00	27.59				N
ATOM	3091	CA	ARG A	A	417		10.733	20.005	46.738		27.42				.c

ATOM	3093	CB	ARG	Α	417	10.239	18.536	46.727	1.00 2	7 61	^
ATOM	3096	CG			417	8.781	18.282	47.141			C
ATOM	3099	CD			417				1.00 2		C
						8.283	16.833	46.853	1.00 3		C
ATOM	3102	NE			417	6.873	16.775	46.418	1.00 3		N
ATOM	3104	CZ			417	6.426	17.204	45.230	1.00 3		N C
MOTA	3105	NH1	ARG	Α	417	7.270	17.711	44.330	1.00 3	0.42	N N
ATOM	3108	NH2	ARG	Α	417	5.132	17.105	44.929	1.00 2		NT.
MOTA	3111	С			417	10.026	20.853	47.815	1.00 2		C
ATOM	3112	Ō			417	9.287	21.793	47.518	1.00 2		C
MOTA	3113	N			418	10.294	20.540				0
ATOM	3115							49.068	1.00 2		N
		CA			418	9.607	21.200	50.171	1.00 2		С
MOTA	3117	CB			418	9.929	20.450	51.455	1.00 2		С
ATOM	3120	CG			418	9.361	21.061	52.676	1.00 2	7.39	C
ATOM	3121	CD1	PHE	Α	418	8.010	21.270	52.791	1.00 2	9.73	C
ATOM	3123	CE1	PHE	A	418	7.471	21.816	53.944	1.00 3		,0020000000000000000000000000000000000
MOTA	3125	CZ			418	8.288	22.139	54.973	1.00 3		Č
ATOM	3127		PHE			9.656	21.926	54.861	1.00 3		C
ATOM	3129		PHE			10.178					C
ATOM	3131						21.391	53.727	1.00 2		С
		C			418	9.893	22.723	50.269	1.00 2		С
ATOM	3132	0			418	8.961	23.522	50.366	1.00 2		0
MOTA	3133	N			419	11.155	23.132	50.252	1.00 23		N
ATOM	3134	CA	PRO	Α	419	11.468	24.556	50.127	1.00 23	3.35	С
ATOM	3136	CB	PRO	Α	419	12.977	24.571	49.841	1.00 2		000000000000000000000000000000000000000
ATOM	3139	CG	PRO	Α	419	13.483	23.341	50.426	1.00 2		Č
ATOM	3142	CD			419	12.372	22.320	50.405	1.00 2		2
ATOM	3145	C			419	10.708	25.219	48.981			C
ATOM	3146	ŏ			419				1.00 23		_
ATOM						10.217	26.313	49.196	1.00 2		0
	3147	N			420	10.601	24.572	47.819	1.00 2		N
ATOM	3149	CA			420	9.949	25.168	46.648	1.00 2		· . C
MOTA	3151	CB			420	10.037	24.268	45.413	1.00 23	3.05	С
ATOM	3154	CG	ARG	A	420	11.344	24.320	44.644	1.00 2	4.92	C
ATOM	3157	CD	ARG	Α	420	11.224	23.727	43.233	1.00 28	3.27	C
ATOM	3160	NE	ARG	Α	420	12.522	23.475	42.601	1.00 3		N
ATOM	3162	CZ			420	13.271	22.382	42.803	1.00 3		C
MOTA	3163		ARG			12.854	21.407	43.622	1.00 3		
ATOM	3166		ARG			14.449					N N C
ATOM	3169	C					22.251	42.183	1.00 34		N
					420	8.489	25.423	46.947	1.00 22		
ATOM	3170	0			420	7.939	26.438	46.524	1.00 23		0
ATOM	3171	N			421	7.856	24.504	47.675	1.00 23		N
ATOM	3173	CA			421	6.450	24.666	48.046	1.00 20	0.91	C
ATOM	3175	CB	MET			5.937	23.429	48.739	1.00 20	0.70	C
ATOM	3178	CG	MET	A	421	5.634	22.299	47.798	1.00 2		Ċ
ATOM	3181	SD			421	5.218	20.786	48.673	1.00 19		S
MOTA	3182	CE			421	3.780	21.239	49.263	1.00 22		c
ATOM	3186	C	MET				25.856	48.955			
ATOM	3187	ŏ			421	5.388					C
ATOM	3188						26.687	48.737	1.00 20		0
		N	LEU			7.076.		49.978	1.00 21		N
ATOM	3190	CA	LEU			6.961	27.067	50.892	1.00 21		C
ATOM	3192	CB			422	7.972	26.920	52.048	1.00 22	2.35	С
ATOM	3195	CG	LEU			7.795	25.673	52.935	1.00 24	1.02	С
MOTA	3197	CD1	LEU	A	422	8.797	25.640	54.084	1.00 25		Ċ
MOTA	3201	CD2	LEU	A	422	6.380	25.531	53.478	1.00 24		č
MOTA	3205	С	LEU			7.137	28.371	50.110	1.00 21		
ATOM	3206	ō	LEU			6.398	29.310	50.305			C
ATOM	3207	N	MET						1.00 22		0
ATOM	3209					8.078	28.408	49.175	1.00 21		N
		CA	MET			8.351	29.627	48.411	1.00 21		C
ATOM	3211	CB	MET			9.532	29.401	47.463	1.00 22		C
ATOM	3214	CG	MET			10.871	28.989	48.161	1.00 25		С
ATOM	3217	SD	MET			11.977	30.338	48.557	1.00 28		S
ATOM	3218	CE	MET			12.949	30.359	47.182	1.00 28		č
MOTA	3222	С	MET	A	423	7.152	30.155	47.613	1.00 20		č
											•
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ATOM	3223	0	MET	Α	423	7.067	31.319	47.317	1.00 19.36			_
ATOM	3224	N	LYS	Α	424	6.237	29.275	47.253	1.00 19.36			0
ATOM	3226	CA	LYS			4.994	29.675	46.610	1.00 19.32			N C
ATOM	3228	CB	LYS			4.270	28.457	46.040	1.00 18.77		•	C
ATOM	3231	CG	LYS			5.017	27.815	44.925	1.00 19.22			Ċ
ATOM	3234	CD	LYS			5.115	28.752	43.726	1.00 21.18			Ċ
ATOM	3237	CE	LYS			5.767	28.077	42.502	1.00 22.94			C
ATOM	3240	NZ	LYS			6.592	29.019	41.689	1.00 24.40			И
ATOM	3244	С	LYS	A	424	4.069	30.432	47.551	1.00 17.80			C
ATOM	3245	0	LYS			3.326	31.311	47.114	1.00 16.79			Ö
ATOM	3246	N			425	4.112	30.096	48.834	1.00 16.96	•		N
ATOM	3248	CA	LEU			3.452	30.940	49.842	1.00 16.90			C
ATOM	3250	СВ			425	3.626	30.388	51.254	1.00 17.39			Č
ATOM	3253	CG	LEU	ĮΑ	425	3.104	28.965	51.501	1.00 18.37			č
ATOM	3255		LEU			3.355	28.612	52.939	1.00 19.31			. č
ATOM	3259		LEU			1.641	28.857	51.167	1.00 19.13			c
ATOM	3263	С			425	3.920	32.387	49.785	1.00 15.75			Č.
ATOM	3264	0			425	3.143	33.278	49.958	1.00 15.21			Ö
ATOM	3265	N			426	5.195	32.600	49.518	1.00 15.73	•	•	N
ATOM	3267	CA			426	5.727	33.944	49.299	1.00 15.53	•		·C
ATOM	3269	CB	VAL	Α	426	7.229	33.908	48.979	1.00 15.20			Č
ATOM ATOM	3271	CGI	VAL	A	426	7.749	35.282	48.813	1.00 15.09		. •	Č
ATOM	3275		VAL			7.992	33.187	50.059	1.00 15.76			С
ATOM	3279 3280	C			426	5.053	34.578	48.106	1.00 15.52			C
ATOM	3281	0			426	4.640	35.721	48.137	1.00 15.24	•		0
ATOM	3283	N			427	4.988	33.810	47.030	1.00 16.02			N
ATOM	3285	CA CB			427	4.421	34.275	45.781	1.00 16.14	•		С
ATOM	3288	OG			427	4.534	33.173	44.720	1.00 16.06			C.
ATOM	3290	C	SER			5.854	33.124	44.199	1.00 16.93			0
ATOM	3291	Ö	SER		427	2.973	34.722	46.000	1.00 16.25			С
ATOM	3292	N			428	2.595	35.800	45.561	1.00 15.92			0
ATOM	3294	CA	LEU				33.908	46.723	1.00 16.53			N
ATOM	3296	CB	LEU	Δ	120	0.787	34.174	46.988	1.00 16.61			C
ATOM	3299	CG	LEU			0.197 -0.058	33.089	47.851	1.00 16.85			C
ATOM	3301		LEU	Δ	428	-0.363	31.775	47.107	1.00 18.38			С
ATOM	3305		LEU			-1.199	30.689 31.859	48.151	1.00 18.87			C
ATOM	3309	C	LEU			0.523	35.476	46.064 47.685	1.00 18.12			C
ATOM	3310	0	LEU			-0.540	36.025	47.493	1.00 16.85			C
ATOM	3311	N	ARG			1.479	35.952	48.492	1.00 16.52			0
ATOM	3313	CA	ARG			1.358	37.220	49.219	1.00 17.60 1.00 17.77	•		N
MOTA	3315	CB	ARG			2.485	37.435	50.227	1.00 17.77			C
MOTA	3318	CG	ARG			2.480	36.588	51.439	1.00 17.80			C
ATOM	3321	CD	ARG			1.121	36.479	52.125	1.00 17.80			C
ATOM	3324	NE	ARG	Α	429	1.196	35.633	53.321	1.00 20.21			
MOTA	3326	CZ	ARG	A	429	1.457	36.083	54.542	1.00 20.19			N C
ATOM	3327	NH1	ARG	Α	429	1.637	37.391	54.774	1.00 19.26			N
ATOM	3330		ARG			1.524	35.207	55.538	1.00 20.42			N
ATOM	3333	С	ARG			1.436	38.363	48.283	1.00 18.10			C
ATOM	3334	0	ARG			0.653	39.273	48.394	1.00 18.81			õ
ATOM	3335	N	THR			2.431	38.355	47.409	1.00 18.64			. N
ATOM ATOM	3337	CA	THR	A	430	2.529	39.359	46.354	1.00 19.31	•		C
	3339	CB	THR	A	430	3.808	39.129	45.519	1.00 19.46			Č
ATOM ATOM	3341	OGT	THR	A	430	4.904	39.826	46.117	1.00 19.54			ŏ
ATOM	3343 3347	CG2	THR	A	430	3.696	39.744	44.136	1.00 20.15			Č
ATOM	3348	C	THR			1.282	39.310	45.455	1.00 19.59			Č
ATOM	3348	O N	THR			0.760	40.363	45.058	1.00 19.15			Ö
ATOM	3351	N CA	LEU			0.817	38.089	45.161	1.00 19.65			N
ATOM	3353	CB	LEU			-0.321	37.867	44.279	1.00 19.98			C
ATOM	3356	CG	LEU			-0.503	36.389	44.034	1.00 20.08			С
	5550	Ç.G	LEU	A	431	-0.281	35.784	42.650	1.00 21.04			.C
									•			

ATOM	3358	CD1	LEU	Α	431	0.233	36.774	41.638	1.00	22.08		С
ATOM	3362		LEU			0.614	34.536	42.731	1.00	20.80		c
ATOM	3366	C			431	-1.620	38.425	44.847		20.42		Č
ATOM ATOM	3367	0			431	-2.438	38.944	44.096	1.00	20.94		ō
ATOM	3368 3370	N			432	-1.805	38.323	46.164		20.27		N
ATOM	3372	CA CB			432	-2.925	38.950	46.850		19.94		С
ATOM	3375	OG			432 432	-2.829	38.753	48.334		19.85		С
ATOM	3377	C			432	-3.931 -2.994	39.389	48.922		20.35		0
ATOM	3378	Ö			432	-4.079	40.429	46.654	1.00	20.43		C
ATOM	3379	N			433	-1.842	40.960 41.103	46.515 46.699		20.88		0
MOTA	3381	CA			433	-1.768	42.553	46.458		20.85		N
ATOM	3383	CB			433	-0.381	43.093	46.772		20.63		C
MOTA.	3386	OG			433	0.018	42.700	48.074		22.56		CO
ATOM	3388	С	SER	A	433	-2.096	42.902	45.027	1.00	20.21		C
ATOM	3389	0			433	-2.773	43.883	44.790		20.71		Õ
ATOM	3390	N			434	-1.616	42.111	44.067		19.98		Ŋ
MOTA	3392	CA			434	-1.991	42.291	42.649		19.65		Ĉ
ATOM	3394	CB			434	-1.292	41.273	41.698		19.49		č
ATOM	3396	CG1	VAL	A	434	-1.831	41.389	40.295	1.00	19.50		C
ATOM	3400		VAL			0.201	41.480	41.659	1.00	19.36		C
ATOM .	3404 3405	C			434	-3.505	42.126	42.483		19.66		C
ATOM	3405	O N			434	-4.109	42.756	41.619		19.42		0
ATOM	3408	N CA			435 435	-4.115	41.290	43.323		19.83		N
ATOM	3410	CB			435	-5.566 -6.013	41.125	43.313		19.75		С
ATOM	3413	CG			435	-7.491	39.831 39.736	44.010		19.36		С
ATOM	3414		HIS			-8.138	40.014	44.151		18.62		C
ATOM	3416		HIS			-9.438	39.896	45.328 45.151		17.77		N
ATOM	3418		HIS			-9.659	39.574	43.893		18.31 17.98		C
MOTA	3420	CD2	HIS	A	435	-8.456	39.478	43.244		18.86		N
ATOM	3422	С	HIS			-6.308	42.333	43.893		20.14		C
ATOM	3423	0	HIS	Α	435	-7.361	42.676	43.389		19.98		Ö
ATOM	3424	N			436	-5.775	42.969	44.939		20.92		N
ATOM	3426	CA	SER			-6.373	44.199	45.479		21.45		c
MOTA	3428	CB			436	-5.640	44.651	46.719		21.08		Č
ATOM ATOM	3431	OG			436	-6.065	43.887	47.808	1.00	22.20		ō
ATOM	3433 3434	C			436	-6.353	45.347	44.473		22.17		С
ATOM	3435	O N	SER GLU			-7.250	46.186	44.458		21.92		0
ATOM	3437	CA	GLU			-5.301	45.383	43.660		22.91		N
ATOM	3439	CB	GLU			-5.144 -3.731	46.372	42.599		23.43		С
ATOM	3442	CG	GLU			-2.668	46.285 46.706	42.035		23.83		С
ATOM	3445	CD	GLU			-1.273	46.708	43.033	1.00	25.55		C
ATOM	3446		GLU	A	437	-0.338	46.356	42.533 43.379		28.12		C
ATOM	3447		GLU			-1.118	46.260	41.291		29.77 29.12		0
MOTA	3448	С	GLU			-6.163	46.188	41.473		23.06		0
ATOM .	3449	0	GLU	A	437	-6.631	47.163	40.880		22.75		С 0
MOTA	3450	N	GLN			-6.495	44.930	41.192		22.97		N.
MOTA	3452	CA	GLN			-7.547	44.592	40.243		22.59		C
ATOM	3454	CB	GLN	Α	438	-7.583	43.092	39.966		22.22		C
ATOM ATOM	3457	CG	GLN			-8.688	42.644	39.030	1.00	21.85		Č
ATOM	3460 3461	CD	GLN	A	438	-8.530	43.205	37.648	1.00	21.21		Č
ATOM	3462	OE1 NE2	CIN	A	438	-7.916	42.573	36.787	1.00	20.42		0
ATOM	3465	C	GLN			-9.066 -8.001	44.403	37.429		20.77		N
ATOM	3466	0	GLN			-8.901 -9.667	45.055	40.748		22.79		C
ATOM	3467	N	VAL			-9.667 -9.195	45.589	39.959	1.00	23.19		0
ATOM	3469		VAL			-9.195 -10.482	44.876 45.306	42.040	1.00	22.62		N
MOTA	3471	СВ	VAL			-10.666	45.306	42.605 44.074		23.09		C
MOTA	3473	CG1	VAL	A	439	-11.891	45.422	44.727		22.84 22.88		C
					_			44.141	1.00	44.00		С
						·					· · · · · · · · · · · · · · · · · · ·	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3477 3481 3482 3483 3485 3490 3491 3493 3495 3503 3505 3507 3511 3512 3513 3515 3522 3526	C O N CA CB CC CD2 C O N CA CB CC CD1 CC CD2 C C CD1 CC CD	VAL PHE PHE PHE PHE PHE PHE PHE ALA ALA ALA ALA LEU LEU LEU	A 439 A 440 A 440 A 440 A 440 A 440 A 440 A 440 A 441 A 441 A 441 A 441 A 441 A 442 A 442	- -	-10.792 -10.678 -11.739 -9.642 -9.590 -8.283 -7.993 -7.655 -7.250 -7.184 -7.516 -9.674 -9.113 -9.124 -9.113 -9.124 -9.124 10.507 10.884 11.234 12.581 13.085 12.669 12.669 12.869	46.851 47.339 47.583 49.039 49.428 50.907 51.678 53.650 52.897 51.523 49.601 50.687 48.839 49.206 48.333 49.075 49.872	44.127 42.539 42.138 42.946 42.982 43.693 43.654 44.821 44.798 43.601 42.436 41.545 41.545 41.545 41.545 39.183 38.413 38.576 37.737 38.996 38.515 39.040 39.316 37.028	1.00 22.83 1.00 23.97 1.00 24.18 1.00 24.82 1.00 25.26 1.00 25.27 1.00 27.10 1.00 28.61 1.00 28.61 1.00 28.66 1.00 25.77 1.00 25.46 1.00 26.29 1.00 26.44 1.00 26.33 1.00 26.33 1.00 26.80 1.00 27.83 1.00 27.83 1.00 27.83 1.00 27.83 1.00 27.83 1.00 27.99 1.00 27.30
ATOM	3530	C	LEU A			13.514	48.840	38.983	1.00 27.30
ATOM	3531	0	LEU A			14.329	49.317	38.218	1.00 28.61
ATOM	3532	N	ARG A			13.391	49.228	40.246	1.00 29.29
ATOM ATOM	3534 3536	CA	ARG A			14.209	50.299	40.808	1.00 30.04
ATOM	3539	CB CG	ARG A			13.736	50.649	42.217	1.00 30.22
ATOM	3542	CD	ARG A			14.192 15.332	49.662 50.167	43.274	1.00 31.52
ATOM	3545	NE	ARG A			14.955	50.187	44.148 45.560	1.00 33.85 1.00 35.83
MOTA	3547	CZ	ARG A			15.607	50.238	46.500	1.00 35.83 1.00 37.07
MOTA	3548	NH1	ARG A	443	-	16.700	51.632	46.203	1.00 37.49
ATOM	3551		ARG A		-	15.159	50.913	47.756	1.00 37.38
ATOM	3554	С	ARG A			14.196	51.546	39.923	1.00 30.25
ATOM ATOM	3555 3556	0	ARG A			15.220	52.224	39.781	1.00 29.93
ATOM	3558	N CA	LEU A			13.032	51.831	39.334	1.00 30.75
ATOM	3560	CB	LEU A			12.860 11.384	52.956 53.066	38.392	1.00 31.09
ATOM	3563	CG	LEU A			10.487	54.098	37.950 38.648	1.00 31.17
ATOM	3565	CD1	LEU A		-	10.498	53.963	40.166	1.00 31.22 1.00 31.19
MOTA	3569		LEU A			-9.067	53.983	38.114	1.00 31.45
ATOM	3573	C	LEU A			13.787	52.885	37.151	1.00 31.11
ATOM	3574	0	LEU A			14.194	53.923	36.611	1.00 31.11
ATOM ATOM	3575 3577	N	GLN A		-:	14.092	51.662	36.709	1.00 31.11
ATOM	3579	CA CB	GLN A			15.074	51.394	35.648	1.00 31.21
ATOM	3582	CG	GLN A			14.598 13.132	50.220	34.787	1.00 31.41
MOTA	3585	CD	GLN A			12.865	50.239 49.300	34.392 33.233	1.00 32.12
ATOM	3586	OE1	GLN A	445		12.702	48.082	33.447	1.00 33.14 1.00 32.74
MOTA	3587	NE2	GLN A	445		12.866	49.847	31.994	1.00 32.74
ATOM .	3590	C	GLN A		-1	16.465	51.032	36.204	1.00 31.07
ATOM ATOM	3591 3592	0	GLN A			17.130	50.134	35.674	1.00 31.04
ATOM	3592 3594	N CA	ASP A			16.901	51.742	37.250	1.00 30.89
ATOM	3596	CB	ASP A	446		l8.107 l9.350	51.412 52.244	38.047	1.00 30.55
ATOM	3599	CG	ASP A			19.798	51.973	37.606 36.150	1.00 30.66 1.00 31.69
ATOM	3600	OD1	ASP A	446		20.020	52.946	35.373	1.00 31.69
ATOM	3601	OD2	ASP A	446		L9.981	50.822	35.695	1.00 32.98

ATOM 3606 CA LYS A 447 -17.386 49.095 38.336 1.00 29.01 N ATOM 3606 CA LYS A 447 -16.598 46.911 37.463 1.00 28.56 C A LYS A 447 -16.598 46.911 37.463 1.00 28.56 C A LYS A 447 -16.598 46.911 37.463 1.00 28.67 C C ATOM 3611 CG LYS A 447 -16.958 46.911 37.463 1.00 29.64 C C ATOM 3617 CE LYS A 447 -17.268 47.638 38.342 1.00 21.49 N ATOM 3620 NZ LYS A 447 -15.821 45.495 34.266 1.00 31.17 C C ATOM 3620 NZ LYS A 447 -15.821 45.495 34.266 1.00 31.17 C C ATOM 3620 NZ LYS A 447 -16.6241 45.320 32.835 1.00 31.49 N ATOM 3625 O LYS A 447 -17.265 47.168 39.878 1.00 27.76 C ATOM 3625 N LYS A 448 -18.263 47.349 40.168 1.00 27.79 O C ATOM 3625 N LYS A 448 -18.263 47.349 40.168 1.00 27.79 O C ATOM 3630 CB LYS A 448 -19.153 47.975 42.975 1.00 26.37 N ATOM 3630 CB LYS A 448 -19.153 50.161 42.975 1.00 26.57 C ATOM 3630 CB LYS A 448 -19.153 50.161 42.975 1.00 26.59 C ATOM 3630 CB LYS A 448 -20.515 50.161 42.975 1.00 26.59 C ATOM 3636 C LYS A 448 -20.515 50.161 42.975 1.00 27.73 C C ATOM 3646 C LYS A 448 -20.515 50.161 42.975 1.00 27.73 C C ATOM 3646 C LYS A 448 -20.515 50.161 42.975 1.00 27.73 C C ATOM 3646 C LYS A 448 -20.515 50.161 42.975 1.00 27.73 C C ATOM 3646 C LYS A 448 -20.515 50.161 42.975 1.00 27.73 C C ATOM 3646 C LYS A 448 -20.515 50.161 42.576 1.00 27.68 N ATOM 3655 C B LEU A 449 -11.977 45.977 43.65 1.00 27.68 N ATOM 3650 C B LYS A 448 -21.996 46.913 42.506 1.00 27.68 N ATOM 3650 C B LYS A 448 -21.996 44.501 1.00 27.68 N ATOM 3650 C B LYS A 448 -19.382 44.78 1.00 27.68 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3650 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3660 C B LYS A 448 -21.996 44.78 1.00 27.05 N ATOM 3660 C B LYS A 448 -21.996 44.78 1.00 27.05	ATOM ATOM	3602 3603	0	ASP A	4	146	-18.421 -19.580	49.913 49.514	38.134 38.041	1.00 29	.02	CO
ATOM 3608 CB LVS A 447	ATOM ATOM	3604 3606					-17.386 -17.536	49.095	38.336			N
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ATOM 3735 CA SER A 454 -17.140 43.210 49.503 1.00 21.77 C												
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		J. J.			••			44.7T4	37.433	1.00 Z		C

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ATOM	3740	OG	SER	Α	454	-17.652	45.370	48.461	1 00	20.15			_
ATOM	3742	C											0
					454	-16.764		50.982	1.00	22.46			С
MOTA	3743	0			454	-15.807	43.761	51.400	1.00	21.96			0
ATOM	3744	N	GLU	Α	455	-17.479	42.312	51.757		23.59			_
ATOM	3746	CA	GLU			-17.096							. N
								53.141		25.53			. C
MOTA	3748	CB	GPO	A	455	-17.878	40.852	53.690	1.00	25.84			С
ATOM	3751	CG	GLU	Α	455	-19.276	41.185	54.208		28.77			Č
ATOM	3754	CD	GLU			-20.256		54.195					-
									1.00	31:25			С
MOTA	3755		GLU			-21.394	40.150	54.700	1.00	31.67			0
ATOM	3756	OE2	GLU	Α	455	-19.905	38.907	53.671	1.00	33.40	•		0
ATOM .	3757	С			455	-15.572							~
								53.264		26.68			C
ATOM	3758	0	GLU			-14.908	42.249	54.198	1.00	27.07			. O
MOTA	3759	N	ILE	A	456	-15.033	41.007	52.298	1.00	27.38			N
ATOM	3761	CA	TIE	Δ	456	-13.678		52.359		27.66			
													С
ATOM	3763	CB			456	-13.569		51.642	1.00	27.97			С
ATOM	3765	CG1	ILE	Α	456	-14.852	38.268	51.657	1.00	27.83			C
ATOM	3768	CD1	ILE	Δ	456	-14.735		50.750		28.22			Č.
ATOM	3772										•		
			ILE			-12.479		52.267		28.27			C ·
MOTA	3776	С	ILE	Α	456	-12.617	41.407	51.744	1.00	27.81	-		С
ATOM	3777	0	ILE	Α	456	-11.530	41.525	52.294		27.84			. 0
ATOM	3778	N	TRP									•	
						-12.916		50.619		28.14			N
MOTA	3780	CA	TRP	A	457	-11.868	42.665	49.790	1.00	28.27			C
ATOM	3782	CB	TRP	A	457	-11.835	41.959	48.438	1.00	27.80			C
ATOM	3785	CG			457	-11.435		48.478					~
ATOM										26.47			C
	3786					-10.558		49.332	1.00	27.09			С
MOTA	3788	NE1	TRP	Α	457	-10.425	38.613	49.055	1.00	25.93			N
ATOM	3790		TRP			-11.230		47.999		24.67			
ATOM	3791												C
			TRP			-11.882	39.486	47.609		25.03			C
ATOM	3792	CE3	TRP	Α	457	-12.766	39.430	46.534	1.00	24.74			С
ATOM	3794	CZ3	TRP	Α	457	-12.973	38.214	45.906		24.55			Č
ATOM	3796	CHO	TRP	7\	157								
		CHZ	INF	Α.	457	-12.305	37.059	46.315		23.20			C
	3798	CZZ	TRP			-11.438	37.079	47.361	1.00	23.28			С
ATOM	3800	C	TRP	Α	457	-11.866	44.207	49.556	1.00	29.43			C
ATOM	3801	0	TRP			-10.929				30.28			
													0
ATOM	3802	N	ASP			-12.832	44.991	50.016	1.00	30.20	•		N
ATOM	3804	CA	ASP	A	458	-12.664	46.443	49.817	1.00	31.40			С
·ATOM	3806	CB	ASP	A	458	-13.193	46.934	48.434		31.63			C.
ATOM	3809	CG	ASP			-14.687							
								48.197		31.97			С
ATOM	3810		ASP			-15.402	46.153	49.106	1.00	32.78			0
MOTA	3811	OD2	ASP	Α	458	-15.234	46.859	47.099	1.00	32.00			0
ATOM	3812	С	ASP			-13.209	47.291	50.953		32.10			
ATOM													C.
	3813	0	ASP			-12.455	47.641	51.862	1.00	33.21			0
ATOM	3814		444			-12.903	32.520	41.908	1.00	38.73			0
ATOM	3815	S12	444	Α	500	-11.714	32.268	41.174		36.50			š
ATOM	3816		444			-11.233							
						-11.233	30.945	41.500		38.80			0
MOTA	3817		444			-12.307	32.240	39.501	1.00	35.82			C
ATOM	3818	C02	444	A	500	-11.762	31.312	38.546	1.00	36.26			C
ATOM	3820		444			-12.224	31.300	37.209		35.69			Š
ATOM	3822	CO 4	444	7	500								C
						-13.224	32.213	36.827	1.00	36.31			C
ATOM	3824	C05	444	Α	500	-13.749	33.139	37.783	1.00	36.97			C
ATOM	3826	C06	444	Α	500	-13.296	33.164	39.129		35.39			· C ·
ATOM	3828		444			-10.433	33.536						
								41.205		29.97	,		N
ATOM .	3829	CTO	444	A	200	-9.292	33.272	40.226		28.97			С
MOTA	3832		444			-7.983	33.620	40.842	1.00	29.01			C
ATOM	3833		444			-7.029	33.116	40.045		29.49			E-
ATOM	3834		444										F
						-7.818	33.167	42.091		28.48			F
ATOM	3835		444			-7.832	34.923	40.956	1.00	30.58			F'
ATOM	3836	C23	444	A	500	-10.835	34.982	41.185		24.01			F F C
ATOM	3837		444			-10.965							~
							35.672	42.397		22.07			· C
ATOM	3839		444			-11.379	37.020	42.458		19.90			С
MOTA	3841	C28	444	Α	500	-11.160	35.725	40.000	1.00	21.92			· C
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ATOM 3939 N GLU B 225 30.991 27.260 51.108 1.00 19.45 N ATOM 3941 CA GLU B 225 31.637 28.043 52.135 1.00 20.29 C ATOM 3943 CB GLU B 225 32.820 27.331 52.758 1.00 20.53 C ATOM 3946 CG GLU B 225 32.388 26.464 53.917 1.00 22.48 C ATOM 3949 CD GLU B 225 33.538 25.795 54.602 1.00 23.89 C ATOM 3950 OE1 GLU B 225 34.681 26.120 54.235 1.00 24.51 O ATOM 3951 OE2 GLU B 225 33.285 24.955 55.503 1.00 26.73 O ATOM 3952 C GLU B 225 32.088 29.334 51.537 1.00 20.43 C ATOM 3953 O GLU B 225 31.942 30.365 52.163 1.00 20.91				GLN	В	224					
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ATOM 3946 CG GLU B 225 32.388 26.464 53.917 1.00 22.48 C ATOM 3949 CD GLU B 225 33.538 25.795 54.602 1.00 23.89 C ATOM 3950 OE1 GLU B 225 34.681 26.120 54.235 1.00 24.51 O ATOM 3951 OE2 GLU B 225 33.285 24.955 55.503 1.00 26.73 O ATOM 3952 C GLU B 225 32.088 29.334 51.537 1.00 20.43 C ATOM 3953 O GLU B 225 31.942 30.365 52.163 1.00 20.91 O	MOTA		CA								
ATOM 3949 CD GLU B 225 33.538 25.795 54.602 1.00 23.89 C ATOM 3950 OE1 GLU B 225 34.681 26.120 54.235 1.00 24.51 O ATOM 3951 OE2 GLU B 225 33.285 24.955 55.503 1.00 26.73 O ATOM 3952 C GLU B 225 32.088 29.334 51.537 1.00 20.43 C ATOM 3953 O GLU B 225 31.942 30.365 52.163 1.00 20.91 O											С
ATOM 3950 OE1 GLU B 225 34.681 26.120 54.235 1.00 24.51 O ATOM 3951 OE2 GLU B 225 33.285 24.955 55.503 1.00 26.73 O ATOM 3952 C GLU B 225 32.088 29.334 51.537 1.00 20.43 C ATOM 3953 O GLU B 225 31.942 30.365 52.163 1.00 20.91 O											C
ATOM 3951 OE2 GLU B 225 33.285 24.955 55.503 1.00 26.73 O ATOM 3952 C GLU B 225 32.088 29.334 51.537 1.00 20.43 C ATOM 3953 O GLU B 225 31.942 30.365 52.163 1.00 20.91 O											
ATOM 3952 C GLU B 225 32.088 29.334 51.537 1.00 20.43 C ATOM 3953 O GLU B 225 31.942 30.365 52.163 1.00 20.91 O											
ATOM 3953 O GLU B 225 31.942 30.365 52.163 1.00 20.91 O											
ATOM 5354 N LEU B 220 52.010 23.205 50.525 1.00 20.47 N											
	ATOM	3934	ī,	ጉኮሀ		220	32.610	29.200	30.323	1.00 20.47	IN

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	399663 39966712 39966772 399775770 39988890 3999900789 40010 40012 40013	CB LEU B 226 CG LEU B 226 CD1 LEU B 226 CD2 LEU B 226 C LEU B 226 C LEU B 226 C LEU B 226 C LEU B 226 N MET B 227 CA MET B 227 CB MET B 227 CG MET B 227 C MET B 227 N ILE B 228 CA ILE B 228 CA ILE B 228 CB ILE B 228 CG1 ILE B 228 CG1 ILE B 228 CG1 ILE B 228 CG2 ILE B 228 CG1 ILE B 228 CG2 ILE B 228 CG1 ILE B 229 CA GLN B 229 CA GLN B 229 CB GLN B 229 CC GLN B 230 CCA GLN B 231 CCA LEU B 231 CCA VAL B 232	27.269 26.142 27.188 29.172 28.708 29.266 28.910 28.737 27.588 27.627 28.437 29.960 29.614 31.238 32.324 33.685 33.892 35.306 36.108 35.607 32.362 32.573 31.980 31.551 32.497 32.631 31.764 33.734 30.910 31.139 29.742 28.599 27.354 26.673 25.392 26.3355 28.8598 29.628 30.141 30.761	33.588 31.823 32.476 30.472 29.236 32.169 33.531 34.134 33.452 32.331 31.720 32.126 35.371 36.219 35.499 35.499 35.499 35.499 35.499 35.499 35.4619 35.671 36.219 37.461 36.589 37.461 36.589 37.461 36.589 37.461 36.589 37.461 37.468	49.912 49.833 51.068 52.33.511 53.512 54.122 54.846 52.913 52.913 52.913 52.913 52.913 53.756 53.756 54.695 49.695 49.695 48.304 47.154 45.308 50.202 50.550.948 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913 50.202 50.913	1.00 21.62 1.00 20.86 1.00 21.69 1.00 22.27 1.00 25.55 1.00 29.62 1.00 30.03 1.00 31.02 1.00 21.84 1.00 21.52 1.00 21.50 1.00 20.78 1.00 20.78 1.00 20.78 1.00 19.85 1.00 19.85 1.00 21.94 1.00 21.80 1.00 23.21 1.00 23.16 1.00 23.84
ATOM ATOM	4061 4062	O LEU B 231 N VAL B 232	28.598 29.426	39.448 37.585	52.300	1.00 21.94 1.00 21.80
		CA VAL B 232 CB VAL B 232	29.628	38.171	54.549	1.00 23.21
		CG1 VAL B 232		37.690 37.688	55.513	
ATOM	4072	CG2 VAL B 232	29.026	36.110	55.844	1.00 22.84
ATOM	4076	C VAL B 232	30.630	39.320	54.456	1.00 22.95
ATOM ATOM	4077	O VAL B 232	30.505	40.316	55.165	1.00 25.28
ATOM	4078 4080	N ALA B 233 CA ALA B 233	31.619	39.159	53.572	1.00 25.43
ATOM	4082	CB ALA B 233	32.706 33.869	40.125	53.343	1.00 26.13
ATOM	4086	C ALA B 233	32.307	39.411 41.346	52.651	1.00 26.16
MOTA	4087	O ALA B 233	32.789	42.446	52.502 52.732	1.00 27.05 .
:			52.709	36.340	34.132	1.00 27.17

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ATOM	4088	N	ALA	В	234	31.	490	41.118	51.4	82 1	. 00	28.25		NT
ATOM	4090	CA			234		831	42.176	50.7			29.27		N
ATOM	4092	CB			234		965	41.558	49.6			29.31		C
ATOM	4096	C			234		958	43.004	51.6					C
ATOM	4097	ŏ			234		882					30.40		C
								44.210	51.5			29.95		0
ATOM	4098	N			235		294	42.316	52.5			32.57		N
ATOM	4100	CA			235		399	42.928	53.5			34.38		C
ATOM	4102	CB			235		829	41.824	54.4	41 1	.00	34.81		С
MOTA	4105	CG			235		865	42.286	55.4	84 1	.00	37.75		С
ATOM	4108	CD			235		566	41.484	55.4			41.27		С
ATOM	4109	OE1	GLN	В	235	25.	504	40.371	56.0	26 1	.00	42.65		0
ATOM	4110	NE2			235	24.	525	42.046	54.8			41.12		N
MOTA	4113	С	GLN	В	235	29.	145	43.957	54.3	75 1	.00	34.95		C
ATOM	4114	0	GLN	В	235	28.	613	45.011	54.6	75 1	.00	34.65		0
ATOM	4115	N	LEU	В	236		389	43.615	54.7			36.32		. N
ATOM	4117	CA	LEU	В	236		262	44.414	55.5			37.34		C
ATOM	4119	CB			236		433	43.559	56.0			37.63		č
ATOM	4122	CG			236		509	43.208	57.4			38.70		c
ATOM	4124				236		604	41.997	57.8			39.79		c
ATOM	4128		LEU				960	42.926	57.7			38.57		2
ATOM	4132	C			236		815	45.657	54.8					C
ATOM	4133	Ö			236		855					38.08		C
ATOM	4134							46.726	55.4			37.92		0
		N			237		262	45.493	53.6	26 I		39.36		N
ATOM	4136	CA			237		746	46.598	52.7			40.70		C
ATOM	4138	CB			237		415	46.058	51.5			40.83		С
ATOM	4141	CG			237		532	46.964	50.9			41.60		С
ATOM	4144	CD	GLN				992	46.534	49.5			42.42		С
ATOM	4145		GLN				170	46.108	48.7			42.22		0
ATOM	4146		GLN				308	46.630	49.3			42.50		N
ATOM	4149	С			237		632	47.602	52.4			41.89		С
ATOM	4150	0			237		882	48.807	52.3			41.99		0
MOTA	4151	N			238		413	47.104	52.2	41 1.	.00	43.32	•	N
MOTA	4153	CA	CYS			29.	246	47.954	52.0	13 1.	.00	44.73		С
MOTA	4155	CB	CYS	В	238	28.	069	47.119	51.5	13 1.	.00	44.86		С
ATOM	4158	SG			238	28.	396	46.553	49.83			46.85		S
ATOM	4159	C	CYS	В	238	28.	835	48.702	53.2			45.60		s C
MOTA	4160	0	CYS	В	238	28.	345	49.828	53.1			46.06		ō
MOTA	4161	N	ASN	В	239	29.	045	48.079	54.43			46.60		N
MOTA	4163	CA	ASN	В	239		756	48.692	55.7			47.74		c
ATOM	4165	CB	ASN	В	239		707	47.600	56.8			47.61		č
ATOM	4168	CG	ASN				145	48.099	58.1			48.06		C
ATOM	4169	OD1	ASN			26.		47.868	58.4			49.54		ŏ
ATOM	4170		ASN			28.	986	48.764	58.9			48.17		N
ATOM	4173	C	ASN			29.		49.820	56.1			48.99		C
ATOM	4174	Õ	ASN			29.		50.493				49.79		
ATOM	4175	N	LYS			30.		50.030	55.3					0
ATOM	4177	CA	LYS			31.		51.171	55.6			50.23		N
ATOM	4179	CB	LYS			33.						51.04		C
ATOM	4182	CG	LYS			33.		50.963	54.9			51.14		Ċ
ATOM	4185	CD	LYS					49.716	55.3			51.19		С
ATOM						34.		49.321	54.3			51.44		С
	4188	CE	LYS			35.		48.003	54.70			51.36		С
ATOM	4191	NZ	LYS			37.		48.229	55.13			51.87		N
MOTA	4195	C	LYS			31.	098	52.504	55.10			51.98		С
ATOM	4196	0	LYS			31.		53.570	55.68		.00	51.78		0
ATOM	4197	N	ARG			30.		52.424	54.19			53.10		N
ATOM	4199	CA	ARG			29.		53.500	53.89			54.14		С
ATOM	4201	СВ	ARG			28.		53.042	52.80		.00	54.42		C
ATOM	4204	CG	ARG			27.		54.178	52.13		.00	55.90		C
ATOM	4207		ARG			28.		54.961	51.0	73 1.		57.98		C
MOTA	4210		ARG			27.		55.921	50.33			59.30		N
MOTA	4212	CZ	ARG	В	241	27.	611	57.250	50.2			60.60		C

	4010			_									
ATOM	4213		ARG			28.598	57.855	50.950		60.35			N
ATOM	4216	_	ARG			26.784	57.993	49.545		61.55			N
ATOM	4219	C			241	28.423	53.954	55.135		54.58			C
ATOM ATOM	4220 4221	O N7			241	28.148	55.141	55.293		54.62			0
ATOM		N			242	28.051	52.997	55.996		55.06	•	•	N
	4223	CA			242	27.372	53.273	57.277		55.17			С
ATOM ATOM	4225 4228	CB			242	26.892	51.980	57.957		55.30			С
		OG C			242	25.473	51.941	58.068		56.31			0
ATOM ATOM	4230 4231	.C			242 242	28.211	54.049	58.288		55.24			C.
ATOM	4231	N O			242	27.705 29.463	54.999	58.884		55.71			. 0
ATOM	4232	CA			243		53.655	58.521		55.12		•	. И
ATOM	4234	CB			243	30.259 31.418	54.359 53.497	59.534		55.08			C
ATOM	4239	CG			243	31.996	53.497	60.052 61.364		55.12			C
ATOM	4240		PHE			31.181	54.146	62.493		56.27 57.56			C
ATOM	4242		PHE			31.719	54.624	63.733		57.97			C
ATOM	4244	CZ			243	33.083	54.941	63.831		57.54			C
ATOM	4246		PHE			33.905	54.785	62.705		57.44			C
ATOM	4248	CD2	PHE			33.356	54.313	61.473		57.17	٠.		C
ATOM	4250	C			243	30.746	55.749	59.061		54.73	•		c
MOTA	4251	Ö			243	30.825	56.679	59.865		55.07		-	ŏ
ATOM	4252	N			244	31.027	55.904	57.767		54.22		•	N
ATOM	4254	CA			244	31.487	57.191	57.211		53.75		•	C
ATOM	4256	CB			244	32.064	57.008	55.793		53.77			č
ATOM	4259	OG			244	31.290	57.702	54.822		53.38			ŏ
ATOM	4261	С			244	30.385	58.262	57.176		53.38			č
ATOM	4262	0	SER	В	244	30.627	59.418	57.535		53.00			ō
ATOM	4263	N	ASP	В	245	29.188	57.855	56.732	1.00	53.11			N
ATOM	4265	CA			245	28.019	58.748	56.567	1.00	52.82			С
ATOM	4267	. CB			245	27.074	58.230	55.443	1.00	52.94			С
ATOM	4270	CG	ASP			27.614	58.476	54.002	1.00	53.62			С
ATOM	4271		ASP			28.098	59.587	53.682	1.00	55.16			0
ATOM	4272		ASP			27.548	57.610	53.105		52.73			0
MOTA	4273	C	ASP			27.179	58.946	57.855		52.05			С
MOTA	4274	0	ASP			26.117	59.572	57.805		52.02			0
ATOM	4275	N	GLN			27.652	58.422	58.988		51.15			N
ATOM	4277	CA	GLN			26.926	58.504	60.267		50.54			
ATOM	4279	CB	GLN			27.492	57.455	61.269		50.73			C
ATOM ATOM	4282 4285	CG CD	GLN GLN			27.233	57.722	62.765		51.69			C
ATOM	4286		GLN			27.645	56.547	63.672		53.24			C
ATOM	4287					28.817 26.679	56.436	64.073		54.34			0
ATOM	4290	C	GLN			26.862	55.685 59.957	64.010 60.851		53.27			N
ATOM	4291	ŏ	GLN			25.763	60.470	61.101		49.48 49.52			C
ATOM	4292	N	PRO			28.000	60.615			47.95			O N
MOTA	4293	CA	PRO			27.991	62.064	61.394		46.90			C
ATOM	4295	CB	PRO			29.467	62.362	61.741		47.00			Č
MOTA	4298	CG	PRO			30.042	61.036	62.140		47.48			C
ATOM	4301	CD	PRO			29.359	60.046	61.223		47.92			Č
MOTA	4304	C .	PRO	В	247	27.476	63.045	60.296		45.54	•		č
MOTA	4305	0	PRO			27.150	64.182	60.635		45.34			ŏ
ATOM	4306	N	LŸS	В	248	27.396	62.644	59.032		43.94			N
	4308	CA	LYS	В	248	26.860	63.543	57.990		42.75			Ċ
ATOM	4310	CB	LYS	В	248	27.141	62.964	56.593		43.13			č
MOTA	4313	CG	LYS			28.639	62.768	56.264		44.00			č
MOTA	4316	CD	LYS			28.852	62.542	54.752		44.70			Č
MOTA	4319	CE	LYS			30.091	61.695	54.450	1.00	44.85			Ċ
MOTA	4322	NZ	LYS			30.151	61.296	53.010	1.00	44.31		•	N
ATOM	4326	G.	LYS			25.340	63.827	58.140		40.90			C
MOTA	4327	0	LYS			24.845	64.869	57.686		40.99			0
ATOM	4328	N	VAL	В	249	24.636	62.901	58.797	1.00	38.30			· N

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4330 4332 4334 4338 4342 4343 4344 4346 4348 4350 4352	CB CG1 CG2 C O N CA CB OG1 CG2	THR I	3 249 3 249 3 249 3 249 3 249 3 250 3 250 3 250 3 250 8 250 8 250	23.173 22.743 21.274 23.031 22.576 23.245 21.311 20.513 19.124 19.234	62.868 61.474 61.419 60.379 63.984 64.523 64.318 65.209 65.442 66.102 66.419	58.906 59.484 59.906 58.478 59.767 60.642 59.495 60.341 59.743 58.486 60.602	1.00 36.28 1.00 36.31 1.00 36.23 1.00 36.31 1.00 34.54 1.00 34.40 1.00 32.57 1.00 31.14 1.00 31.02 1.00 31.14 1.00 31.00 1.00 29.95	0000000000000
MOTA MOTA	4356 4357	C O		B 250 B 250	20.326 19.559	64.594 63.644	61.720 61.896	1.00 29.50	0
ATOM	4358	N		B 251	20.989	65.144	62.720	1.00 28.66	N
MOTA	4359	CA		B 251 B 251	20.950 21.874	64.526 65.426	64.051 64.886	1.00 27.87 1.00 27.94	C
ATOM ATOM	4361 4364	CB CG		B 251	22.682	66.181	63.888	1.00 28.33	č
MOTA	4367	CD		B 251	21.791	66.380	62.703	1.00 28.63	C
MOTA	4370	C		B 251	19.522	64.463	64.632	1.00 26.71	C
MOTA	4371	0		B 251	18.680	65.312 63.438	64.335 65.437	1.00 26.64 1.00 25.29	O N
ATOM ATOM	4372 4374	N CA		B 252 B 252	19.263 17.951	63.234	66.046	1.00 23.29	C
ATOM	4376	CB		B 252	17.937	61.878	66.763	1.00 23.92	С
ATOM	4379	CG		B 252	16.605	61.421	67.350	1.00 22.64	C
MOTA	4380	CD1		B 252	16.189	61.540	68.656	1.00 21.21	C
ATOM	4382	NE1 CE2		B 252 B 252	14.938 14.520	60.987 60.492	68.802 67.595	1.00 20.46 1.00 18.51	И
ATOM ATOM	4384 4385	CD2		B 252	15.550	60.747	66.655	1.00 19.31	CCC
ATOM	4386	CE3		B 252	15.353	60.364	65.323	1.00 17.21	C
MOTA	4388	CZ3	TRP	B 252	14.164	59.740	64.978	1.00 16.72	С
MOTA	4390	CH2		B 252	13.156	59.497	65.934	1.00 16.41	C
ATOM	4392	CZ2		B 252 B 252	13.310 17.730	59.868 64.380	67.243 67.013	1.00 17.52 1.00 22.87	C C
ATOM ATOM	4394 4395	C O		B 252	18.638	64.692	67.751	1.00 22.53	0
ATOM	4396	N		B 253	16.565	65.033	66.983	1.00 22.23	N
MOTA	4397	CA		B 253	16.339	66.235	67.787	1.00 22.20	C
ATOM	4399	CB		B 253	15.033 14.333	66.803 65.675	67.198 66.691	1.00 21.68 1.00 21.51	C C
ATOM ATOM	4402 4405	CG CD	PRO	B 253 B 253	15.376	64.726	66.170	1.00 21.31	Č
ATOM	4408	C		B 253	16.217	66.014	69.315	1.00 22.42	Ċ
MOTA	4409	0		в 253	15.242	65.429	69.778	1.00 22.73	0
MOTA	4410	N		B 254	17.195	66.511	70.065	1.00 22.50	N
ATOM ATOM	4412 4414	CA CB		B 254 B 254	17.164 18.599	66.496 66.485	71.516 72.041	1.00 23.12 1.00 23.09	C
ATOM	4417	CG		B 254			71.399	1.00 23.03	č
ATOM	4419	CD1	LEU	B 254	20.903	65.473	72.136	1.00 23.36	C
MOTA	4423			B 254	18.948	64.066	71.382	1.00 21.36	C
ATOM	4427 4428	C		B 254 B 254	16.436 16.501	67.733 68.767	72.041 71.422	1.00 23.58 1.00 23.69	C 0
ATOM ATOM	4429	O N		B 255	15.724	67.619	73.156	1.00 24.43	N
ATOM	4431	CA		B 255	15.173	68.775	73.850	1.00 25.36	С
MOTA	4434	C		B 255	13.829	69.324	73.397	1.00 26.48	C
ATOM	4435	0		B 255	13.453	70.400	73.837	1.00 26.18	0
ATOM ATOM	4436 4438	N CA		B 256 B 256	13.094 11.885	68.573 69.060	72.572 71.870	1.00 28.31 1.00 29.71	N C
ATOM	4440	CB		B 256	11.624	68.177	70.650	1.00 29.61	č
MOTA	4444	c	ALA	B 256	10.597	69.136	72.719	1.00 31.22	С
MOTA	4445	0		B 256	10.383	68.285	73.582	1.00 31.35	0
MOTA	4446	N		B 257	9.733 8.375		72.433 73.051		N C
ATOM ATOM	4448 4450	CA CB		B 257 B 257	7.821		73.009		C

ATOM	·4453	CG	ASP E	3 257	8.880	72.813	73.128	1.00 34.61	
ATOM	4454		ASP E		9.055	73.350	74.248		
ATOM	4455	OD2	ASP E	257	9.524	73.240	72.141	1.00 34.01	
ATOM	4456	C	ASP E		7.361	69.306	72.349	1.00 35.06	
ATOM	4457	Õ	ASP. E		7.794	68.366	71.645	1.00 35.52	
ATOM	4458	N	PRO E		6.037	69.522	72.491	1.00 36.06	
ATOM	4459	CA	PRO E		5.056	68.687		1.00 36.59	
ATOM	4461	CB	PRO E		3.853		71.765	1.00 37.00	
ATOM	4464	CG	PRO E			69.637	71.622	1.00 37.07	
ATOM	4467	CD	PRO E		3.865	70.424	72.945	1.00 37.12	
ATOM	4470	CD	PRO E		5.332	70.530	73.324	1.00 36.62	
ATOM	4471				5.507	68.146	70.392	1.00 37.02	
ATOM	4472	O	PRO E			68.872	69.394	1.00 37.05	
ATOM		N	ALA E		5.933	71.527		1.00 23.53	
ATOM	4474	CA	ALA E		5.885	70.485	64.784	1.00 23.40	
ATOM	4476	СВ	ALA E		4.724	70.738		1.00 23.75	
	4480	C.	ALA E		7.209	70.402	63.997	1.00 23.27	
MOTA	4481	0	ALA E		7.431	69.440	63.219	1.00 22.81	
ATOM	4482	N	ASP E		8.056	71.421	64.200	1.00 22.75	
ATOM	4484	CA	ASP F		9.483	71.415. 72.484	63.837	1.00 22.57	
ATOM	4486	CB	ASP E	3 262	10.210			1.00 22.41	
ATOM	4489	CG	ASP E		11.361	73.132	63.935	1.00 22.49	
ATOM	4490	ODI	ASP E	262	11.983	72.476		1.00 22.83	
ATOM	4491		ASP E	3 262	11.726	74.303	64.160	1.00 21.66	
ATOM	4492	C .	ASP E		10.186	70.036	64.021	1.00 22.69	
ATOM	4493	0	ASP E		10.640	69.427	63.040	1.00 22.60	
ATOM	4494	N	ALA E		10.259	69.542	65.265	1.00 22.63	
ATOM	4496	CA	ALA E		10.984	68.300	65.589	1.00 22.14	
ATOM	4498	CB	ALA E	263	11.027	68.104	67.078	1.00 22.25	
MOTA	4502	C	ALA E		10.422	67.041	64.923	1.00 22.12	
ATOM	4503	0	ALA E		11.153	66.073	64.671	1.00 21.57	
MOTA	4504	N	ARG E		9.124	67.053	64.647	1.00 22.30	
MOTA	4506	CA	ARG E		8.460	65.917	63.998	1.00 22.71	
ATOM	4508	CB		264.	6.940	66.161	63.951	1.00 23.47	
MOTA	4511	CG	ARG E		6.098	65.046	64.548	1.00 26.53	
MOTA	4514	CD	ARG E		5.610	63.988	63.526	1.00 30.96	
ATOM.	4517	NE	ARG E	264	4.850	62.928	64.200	1.00 35.24	
ATOM	4519	CZ	ARG E		3.593	63.049	64.663	1.00 38.99	
ATOM	4520	NH1		264	2.910	64.189	64.501	1.00 40.61	
ATOM	4523		ARG E		3.006	62.017	65.285	1.00 39.67	
ATOM	4526	С	ARG E		9.018	65.681	62.576	1.00 21.70	
ATOM	4527	0	ARG E		9.176	64.540	62.145	1.00 21.68	
ATOM	4528	N	GLN E	265	9.293	66.789	61.879	1.00 20.57	
ATOM	4530	CA	GLN E		9.890	66.828	60.544	1.00 19.35	
ATOM	4532	CB	GLN E	265	9.780	68.263	59.958	1.00 19.49	
ATOM	4535	CG	GLN E	265	9.099	68.373	58.576°	1.00 21.01	
ATOM	4538	CD	GLN E		9.776	67.519	57.471	1.00 21.91	
ATOM	4539		GLN E		9.158	66.607	56.923	1.00 21.19	
ATOM	4540	NE2	GLN E	265	11.038	67.828	57.154	1.00 23.36	
MOTA	4543	C	GLN E		11.358	66.407	60.552	1.00 18.25	
MOTA	4544	0	GLN E		11.833	65.794	59.599	1.00 17.63	
ATOM	4545	N	GLN E		12.086	66.775	61.607	1.00 17.43	
ATOM	4547	CA	GLN E	266	13.534		61.670	1.00 16.68	
ATOM	4549	CB	GLN E		14.210	67.367	62.778	1.00 16.42	
ATOM	4552	CG	GLN E	266	15.749	67.521	62.603	1.00 17.00	
ATOM	4555	CD	GLN B	266	16.443	68.236	63.777	1.00 17.14	
ATOM	4556	OE1	GLN B	266	16.095	69.363	64.093	1.00 18.61	
ATOM	4557	NE2			17.422	67.586	64.402	1.00 15.38	
MOTA	4560	С	GLN B		13.791	65.019	61.862	1.00 15.63	
ATOM	4561	0	GLN B		14.673	64.433	61.224	1.00 14.42	
MOTA	4562	N	ARG B		13.004	64.420	62.753	1.00 15.02	
ATOM	4564	CA	ARG B		13.029	62.981	62.986	1.00 13.02	
								Ta.u/	

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MOTA	4566	CB	ARG	В	267	12.005	62.592	64.037	1.00 14.62	C
MOTA	4569	CG	ARG	В	267	12.304	63.045	65.428	1.00 15.59	
ATOM	4572	CD	ARG			11.209	62.632	66.388	1.00 17.40	
MOTA	4575	NE	ARG	В	267	11.338	63.258	67.702	1.00 18.98	
ATOM	4577	CZ	ARG			10.404	63.991	68.299	1.00 20.96	
ATOM	4578		ARG			9.240	64.242	67.704	1.00 22.06	
ATOM	4581		ARG			10.641	64.494	69.505	1.00 22.00	
							62.248	61.711		
ATOM	4584	C	ARG			12.666			1.00 14.38	
ATOM	4585	0	ARG			13.279	61.232	61.376	1.00 14.37	-
MOTA	4586	N	PHE			11.640	62.741	61.016	1.00 13.88	= -
MOTA	4588	CA	PHE			11.271	62.153	59.748	1.00 13.74	
ATOM	4590	CB	PHE	В	268	9.980	62.728	59.155	1.00 13.86	
ATOM	4593	CG	PHE	В	268	9.592	62.052	57.858	1.00 15.91	C
MOTA	4594	CD1	PHE	В	268	9.120	60.735	57.866	1.00 16.22	
ATOM	4596		PHE			8.814	60.083	56.684	1.00 17.48	
ATOM	4598	CZ	PHE			8.991	60.739	55.470	1.00 18.77	Ċ
ATOM	4600		PHE			9.475	62.059	55.443	1.00 17.57	
ATOM	4602		PHE			9.781	62.700	56.626	1.00 17.00	
ATOM	4604	C	PHE			12.427	62.256	58.743	1.00 17.00	
			PHE			12.834	61.260	58.184	1.00 12.32	
ATOM	4605	0								
ATOM	4606	N	ALA			12.946	63.450	58.522	1.00 12.15	
ATOM	4608	CA	ALA			14.138	63.637	57.709	1.00 11.93	
ATOM	4610	CB	ALA			14.626	65.064	57.821	1.00 11.98	
MOTA	4614	С	ALA			15.253	62.681	58.096	1.00 11.93	
ATOM	4615	0	ALA	В	269	15.867	62.076	57.228	1.00 11.90	
MOTA	4616	N	HIS	В	270	15.491	62.520	59.396	1.00 12.23	
MOTA	4618	CA	HIS	В	270	16.558	61.652	59.892	1.00 12.7	7 C
MOTA	4620	CB	HIS	В	270	16.608	61.703	61.422	1.00 13.09	
ATOM	4623	CG	HIS	В	270	17.682	60.857	62.044	1.00 13.82	
ATOM	4624		HIS			18.985	61.290	62.193	1.00 14.6	
ATOM	4626		HIS			19.693	60.351	62.798	1.00 14.7	
ATOM	4628		HIS			18.894	59.333	63.065	1.00 14.6	
ATOM	4630		HIS			17.628	59.629	62.614	1.00 14.10	
MOTA	4632	C			270	16.372	60.219	59.402	1.00 13.0	
ATOM	4633				270	17.323	59.605	58.948	1.00 13.0	
		0								
ATOM	4634	N			271	15.135	59.728	59.477	1.00 13.50	
ATOM	4636	CA			271	14.764	58.374	59.086	1.00 14.1	
MOTA	4638	CB			271	13.295	58.092	59.458	1.00 14.50	
ATOM	4641	CG			271	13.095	57.360	60.784	1.00 15.9	
MOTA	4642		PHE			13.797	57.709	61.926	1.00 17.5	4 C
MOTA	4644	CE1	PHE			13.596	57.045	63.129	1.00 18.13	
ATOM	4646	CZ			271	12.689	56.049	63.224	1.00 19.2	
ATOM	4648	CE2	PHE	В	271	11.964	55.678	62.103	1.00 20.3	
MOTA	4650	CD2	PHE			12.166	56.348	60.885	1.00 18.43	1 C
ATOM	4652	С	PHE	В	271	14.936	58.168	57.583	1.00 14.7	2 C
ATOM	4653	0	PHE	В	271	15.368	57.086	57.140	1.00 15.0	
ATOM	4654	N			272	14.599	59.198	56.797	1.00 15.0	
ATOM	4656	CA	THR	В	272	14.748	59.149	55.328	1.00 14.8	
ATOM	4658	CB			272	14.101	60.368	54.642	1.00 14.5	
ATOM	4660	OG1			272	14.749	61.567	55.057	1.00 12.3	
ATOM	4662	CG2			272	12.651	60.545	55.069		
									1.00 14.6	
ATOM	4666	C			272	16.219	59.109	54.961	1.00 15.2	
ATOM	4667	0			272	16.640	58.450	54.001	1.00 14.0	
ATOM	4668	N			273	16.997	59.818	55.764	1.00 16.2	
ATOM	4670	CA			273	18.405	59.963	55.485	1.00 17.1	
MOTA	4672	CB			273	18.992	61.146	56.242	1.00 17.1	
MOTA	4675	CG			273	18.835	62.413	55.419	1.00 18.2	
ATOM	4678	CD			273	19.309	63.646	56.145	1.00 20.2	5 C
MOTA	4679	OE1	GLU	В	273	18.516	64.607	56.299	1.00 21.6	
ATOM	4680	OE2	GLU	В	273	20.479	63.646	56.548	1.00 20.7	
MOTA	4681	С			273	19.148	58.674	55.741	1.00 17.5	

ATOM	4682	0	GLU E	273		20.086	58.355	55.009	1 00	18.09
ATOM	4683	N	LEU E	274		18.716	57.915	56.740		17.88
ATOM	4685	CA	LEU B			19.280	56.589	56.962		18.24
MOTA	4687	CB	LEU E	274		18.919	56.064	58.345		18.44
ATOM	4690	CG	LEU B	274		19.333	56.898	59.559		20.02
ATOM	4692	CD1				18.910	56.182	60.858		21.07
ATOM	4696	CD2			•	20.825	57.222	59.575		21.28
ATOM	4700	C	LEU B			18.811	55.611	55.880		17.93
ATOM	4701	.0	LEU B			19.575	54.755	55.458		17.46
ATOM	4702	N	ALA B			17.562	55.768	55.431		17.83
ATOM	4704	CA	ALA B			16.987	54.924	54.386		17.37
ATOM	4706	СВ	ALA B			15.553	55.269	54.142		16.76
MOTA	4710	C	ALA B	275		17.778	55.084	53.118		
ATOM	4711	ō	ALA B			18.088	54.097	52.466		18.01 18.14
ATOM	4712	N	ILE B			18.107	56.330	52.770		18.68
ATOM	4714	CA	ILE B			18.945	56.613	51.623		18.96
ATOM	4716	CB	ILE B			19.214	58.142	51.475		19.22
ATOM	4718	CG1				17.991	58.845	50.882		18.43
ATOM	4721	CD1				18.007	60.347	51.022		17.60
ATOM	4725	CG2		276		20.450	58.409	50.592		19.31
ATOM	4729	С	ILE B			20.244	55.857	51.784		19.67
ATOM	4730	0	ILE B			20.620	55.113	50.901		20.42
ATOM	4731	N	ILE B			20.919	56.016	52.918		20.42
ATOM	4733	CA	ILE B			22.206	55.341	53.135		20.23
ATOM	4735	CB	ILE B			22.748	55.641	54.560		20.48
ATOM	4737	CG1				23.202	57.085	54.641		20.58
ATOM	4740	CD1			•	23.112	57.656	56.037		21.64
ATOM	4744	CG2				23.908	54.755	54.926		20.23
ATOM	4748	C	ILE B			22.064	53.836	52.885		21.24
ATOM	4749	0	ILE B			22.933	53.218	52.296		21.33
ATOM	4750	N	SER B			20.948	53.264	53.312		22.00
ATOM	4752	CA	SER B	278		20.710	51.835	53.182		22.97
ATOM	4754	CB	SER B			19.534	51.411	54.085		23.45
ATOM	4757	OG	SER B			19.807	50.198	54.786		26.12
ATOM	4759	C	SER B			20.472	51.437	51.709	1.00	22.73
ATOM	4760	0	SER B			20.951	50.399	51.241		22.40
ATOM	4761	N	VAL B			19.751	52.277	50.979	1.00	22.57
ATOM	4763	CA	VAL B	279		19.488	52.021	49.573		22.50
ATOM	4765	CB	VAL B	279		18.607	53.116	48.929	1.00	22.38
MOTA	4767	CG1	VAL B	279		18.448	52.853	47.461		21.66
MOTA	4771	CG2				17.214	53.181	49.587		22.01
ATOM	4775	С	VAL B			20.811	51.942	48.829		22.93
MOTA	4776	0	VAL B			21.018	51.066	48.020		23.53
ATOM	4777	N	GLN B			21.719	52.854	49.118		23.29
AŢOM	4779	CA	GLN B			23.000	52.877	48.448	1.00	
ATOM	4781	CB	·GLN B			23.704	54.221	48.665	1.00	23.57
MOTA	4784	CG	GLN B	280		22.869	55.415	48.141	1.00	25.84
MOTA	4787	CD	GLN B	280		23.391	56.815	48.571	1.00	30.13
MOTA	4788		GLN B			23.752	57.035	49.747	1.00	32.29
ATOM	4789		GLN B			23.406	57.766	47.620	1.00	
ATOM	4792	C	GLN B			23.850	51.686	48.887	1.00	23.22
ATOM	4793	0	GLN B			24.576	51.160	48.066	1.00	23.71
ATOM	4794	N	GLU B			23.756	51.245	50.146	1.00	23.05
ATOM	4796	CA	GLU B			24.459	50.031	50.609	1.00	23.19
ATOM	4798	CB	GLU B		•	24.302	49.865	52.125	1.00	23.69
ATOM	4801	CG	GLU B			25.233	50.720	52.963	1.00	27.14
ATOM	4804	CD	GLU B			25.101	50.516	54.491	1.00	31.62
MOTA	4805		GLU B			24.386	49.589	54.988	1.00	33.36
ATOM	4806		GLU B			25.735	51.323	55.212	1.00	34.33
ATOM	4807	C	GLU B			23.932	48.741	49.928	1.00	22.41
ATOM	4808	0	GLU B	281		24.666	47.794	49.682	1.00	21.37

ATOM	4809	N	ILE	В	282	22	2.636	48.715	49.655	1 00	21.99	M
ATOM	4811	CA	ILE				2.018	47.576	49.041		21.73	N
ATOM	4813	CB	ILE		282).518	47.612	49.272			C
ATOM	4815		ILE				200				21.40	C
								47.370	50.747		20.60	C
ATOM	4818		ILE				3.743	47.703	51.106		20.68	С
MOTA	4822		ILE				849	46.556	48.433		21.56	С
MOTA	4826	C	ILE				2.356	47.550	47.543		21.93	C
ATOM	4827	0	ILE				2.505	46.473	46.962		22.72	0
MOTA	4828	N			283		2.486	48.715	46.919	1.00	21.41	N
MOTA	4830	CA	VAL				2.930	48.769	45.539	1.00	21.34	С
ATOM	4832	CB			283	22	2.949	50.210	44.985	1.00	21.18	С
ATOM	4834		VAL			23	3.718	50.294	43.702	1.00	21.22	CCC
ATOM	4838	CG2	VAL	В	283	2:	L.549	50.693	44.747	1.00	21.12	С
ATOM	4842	, C	VAL	В	283	24	1.311	48.160	45.478		21.51	C
ATOM	4843	0	VAL	В	283		1.513	47.153	44.831		21.40	ō
ATOM	4844	N	ASP				5.244	48.783	46.196		22.34	N
ATOM	4846	CA			284		6.652	48.375	46.304		22.25	č
ATOM	4848	CB			284		7.385	49.244	47.360		22.76	č
ATOM	4851	CG			284		7.596	50.726	46.915		25.07	C
ATOM	4852		ASP				3.189	51.505				
ATOM	4853		ASP				7.214	51.208			27.18	0
									45.809		28.63	0
ATOM	4854	C			284		6.788	46.890	46.638		21.52	C
ATOM	4855	0			284		7.562	46.213	46.021		21.44	0
ATOM	4856	N			285		6.010	46.386	47.586		21.54	N
ATOM	4858	CA			285		6.003	44.958	47.926		21.74	C
MOTA	4860	CB			285		5.005	44.667	49.037		21.35	С
ATOM	4863	CG			285		5.024	43.247	49.502		20.54	С
ATOM	4864		PHE				6.159	42.711	50.069	1.00	20.53	С
MOTA	4866		PHE				6.185	41.370	50.501	1.00	20.89	C
ATOM	4868	CZ			285	2	5.076	40.578	50.366	1.00	19.86	С
MOTA	4870	CE2	PHE	В	285	2:	3.929	41.115	49.811	1.00	20.65	С
ATOM	4872	CD2	PHE	В	285	2:	3.908	42.439	49.374	1.00	20.26	C
ATOM	4874	С	PHE	В	285	2	5.649	44.053	46.750		22.43	C
MOTA	4875	0	PHE	В	285	2	6.387	43.118	46.441		22.74	Ō
ATOM	4876	N			286	2	4.506	44.322	46.125		22.65	N
ATOM	4878	CA			286		4.016	43.536	45.005		22.80	Ċ
ATOM	4880	CB			286		2.704	44.102	44.525		22.88	č
ATOM	4884	С			286		5.016	43.463	43.865		23.08	č
ATOM	4885	Ó			286		5.214	42.411	43.264		22.81	Ö
ATOM	4886	N			287		5.685	44.568	43.596		23.87	N
ATOM	4888	CA			287		6.652	44.602	42.517		25.11	C
ATOM	4890	CB			287		7.226	46.003	42.344		25.42	C
ATOM	4893	CG			287		6.187	46.971	41.748		28.28	c
ATOM	4896	CD			287		6.832	48.165	41.063		31.35	c
ATOM	4899	CE			287		5.897				32.96	
ATOM	4902	NZ			287		6.647	50.645	41.304			C
ATOM	4906	C			287		7.760	43.590			32.73	N
ATOM	4907	Ö			287				42.722		25.44	C
ATOM	4908						3.361	43.137	41.752		26.61	.0
		N			288		3.022	43.224	43.970		25.27	Ŋ
ATOM	4910	CA			288		9.029	42.219	44.288		25.25	Ç
ATOM	4912	CB			288		9.717	42.573	45.589		25.77	C
ATOM	4915	CG			288	2	9.935	44.035	45.776		27.24	С
ATOM	4918	CD			288		1.158	44.290	46.532		29.33	С
ATOM	4919		GLN				2.196	44.483	45.934		35.09	0
ATOM	4920						1.075	44.259	47.853		29.00	N
MOTA	4923	C			288		3.503	40.805	44.434		24.86	C
MOTA	4924	0			288		9.283	39.891	44.558	1.00	24.91	0
MOTA	4925	N			289		7.195	40.610	44.467		24.74	N
ATOM	4927	CA			289		6.660	39.267	44.486	1.00	24.58	С
ATOM	4929	CB			289		5.162	39.251	44.811	1.00	24.53	С
ATOM	4931	CG1	VAL	В	289	2	4.634	37.835	44.812		24.69	С
									·····			

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4935 4939 4940 4941 4942 4944 4947 4950 4953 4955 4957 4960 4961 4966 4966 4969	CG2 C O N CA CB CC O N CA C O N CA C C O C C C C C C C C C C C C C C C	VAL VAL PRO PRO PRO PRO PRO PRO GLY GLY GLY PHE PHE PHE	B 289 B 290 B 290 B 290 B 290 B 290 B 290 B 291 B 291 B 291 B 292 B 292 B 292		24.921 26.929 26.472 27.678 28.052 28.777 29.202 28.174 26.825 25.905 26.833 25.735 24.833 24.359 24.613 23.731 23.776 22.739	39.868 38.717 39.300 37.620 37.045 35.746 35.917 36.803 36.690 36.024 37.116 36.879 38.077 38.280 38.865 40.039 40.776 41.855	46.156 43.094 42.122 42.992 41.695 42.062 43.425 44.112 40.884 41.437 39.612 38.694 38.450 37.328 39.502 39.480 40.851 40.973	1.00 23. 1.00 24. 1.00 25. 1.00 24. 1.00 24. 1.00 25. 1.00 25. 1.00 23. 1.00 23. 1.00 23. 1.00 23. 1.00 23. 1.00 23. 1.00 23. 1.00 23. 1.00 23. 1.00 23.	83 10 94 44 45 44 43 85 44 42 38 38 36 83
ATOM ATOM	4970 4972	CD1				21.476	41.554	41.391	1.00 17.	24
ATOM	4974	CZ	PHE PHE			20.506 20.809	42.530 43.828	41.450 41.072	1.00 17. 1.00 17.	
ATOM	4976	CE2	PHE	B 292		22.078	44.131	40.657	1.00 16.	
ATOM	4978		PHE			23.020	43.154	40.591	1.00 16.	61
ATÓM ATOM	4980 4981	C O	PHE PHE			23.986 23.072	41.031 41.350	38.304	1.00 21.	
ATOM	4982	N	LEU			25.219	41.508	37.526 38.186	1.00 20. 1.00 21.	13
ATOM	4984	CA	LEU	B 293	•	25.568	42.430	37.111	1.00 21.	
ATOM	4986	CB	LEU			27.022	42.927	37.264	1.00 21.	82
ATOM ATOM	4989 4991	CG CD1	LEU LEU			27.303 28.745	43.908	38.421	1.00 22.	
ATOM	4995		LEU			26.506	44.210 45.225	38.488 38.324	1.00 22. 1.00 24.	
ATOM	4999	С	LEU	B 293		25.341	41.853	35.687	1.00 21.	
ATOM	5000	0	LEU			25.247	42.629	34.722	1.00 22.	16
ATOM ATOM	5001 5003	N CA	GLN GLN			25.257	40.519	35.553	1.00 21.	
ATOM	5005	CB	GLN			25.055 25.824	39.871 38.545	34.241 34.149	1.00 21. 1.00 22.	
MOTA	5008	CG .	GLN			27.313	38.716	33.899	1.00 22.	
ATOM	5011	CD	GLN			28.025	39.240	35.129	1.00 24.	
ATOM ATOM	5012 5013	OE1 NE2		B 294 B 294		27.859	38.682	36.221	1.00 27.	
ATOM	5016	C		B 294		28.787 23.570	40.333 39.685	34.974 33.869	1.00 25. 1.00 20.	
ATOM	5017	Ö	GLN			23.257	39.291	32.760	1.00 20.	
MOTA	5018	N	LEU			22.671	39.985	34.798	1.00 19.	
ATOM ATOM	5020 5022	CA CB	LEU	B 295 B 295		21.258	40.109	34.485	1.00 19.	
ATOM	5025	CG		B 295		20.419 20.556	40.160 38.976	35.768 36.727	1.00 18.	
MOTA	5027	CD1	LEU :	B 295		19.715	39.168	38.003	1.00 18. 1.00 17.	
ATOM	5031			B 295		20.197	37.685	36.013	1.00 18.	
ATOM ATOM	5035 5036	C	LEU :	B 295		21.079	41.397	33.705	1.00 19.	02
ATOM	5037	O N		B 295 B 296		21.824 20.107	42.353 41.431	33.912	1.00 19.	
MOTA	5039	CA		B 296		19.738	42.676	32.802 32.149	1.00 18. 1.00 18.	
MOTA	5042	C	GLY :	B 296	•	19.520	43.804	33.148	1.00 18.	
ATOM	5043	0		B 296		18.954	43.608	34.222	1.00 18.	57
ATOM ATOM	5044 5046	N CA		B 297 B 297	•	19.967 19.892	44.997 46.109	32.797	1.00 19.	
ATOM	5048	CB		B 297		20.503	47.381	33.732 33.145	1.00 19. 1.00 20.	
ATOM	5051	CG	ARG :	B 297		20.706	48.509	34.209	1.00 25.	47
ATOM	5054	CD		B 297		21.667	49.639	33.716	1.00 32.	84
ATOM ATOM	5057 5059	NE CZ		B 297 B 297		21.746 20.774	50.888	34.511	1.00 37.	
	2000	~3	. EVIII.	231		20.774	51.808	34.643	1.00 40.	07

ATOM	5060	NH1	ARG	В	297	19.591	51.645	34.067	1.00 41.83	N
ATOM	5063		ARG			20.978	52.896	35.381	1.00 40.87	N
ATOM	5066	С	ARG	В	297	18.464	46.387	34.242	1.00 18.56	Ċ
ATOM	5067	0	ARG	·B	297	18.282	46.799	35.394	1.00 18.69	0
ATOM	5068	N	GLU	В	298	17.462	46.154	33.410	1.00 17.09	N
MOTA	5070	CA	GLU	В	298	16.095	46.419	33.822	1.00 16.30	С
MOTA	5072	CB	GLU	В	298	15.140	46.397	32.633	1.00 16.18	С
MOTA	5075	CG	GLU	В	298	15.308	47.616	31.754	1.00 16.34	С
ATOM	5078	CD	GLU	В	298	14.432	47.610	30.516	1.00 17.34	C
ATOM	5079	OE1	GLU	В	298	14.145	46.520	29.956	1.00 17.09	0
ATOM	5080	OE2	GLU	В	298	14.051	48.725	30.093	1.00 17.25	0
ATOM	5081	C			298	15.669	45.459	34.917	1.00 15.45	C
MOTA	5082	0			298	15.004	45.862	35.842	1.00 14.23	0
ATOM	5083	N			299	16.099	44.208	34.820	1.00 15.32	N
ATOM	5085	CA	ASP			15.837	43.212	35.848	1.00 15.38	С
MOTA	5087	CB			299	16.176	41.816	35.354	1.00 15.65	· C
MOTA	5090	CG			299	15.101	41.240	34.472	1.00 17.26	С
MOTA	5091		ASP			14.197	42.027	34.084	1.00 17.09	0
MOTA	5092		ASP			15.079	40.030	34.111	1.00 18.02	0
ATOM	5093	C			299	16.642	43.493.		1.00 15.54	C
ATOM	5094	. 0			299	16.178	43.232	38.182	1.00 15.50	0
ATOM	5095	N			300	17.854	44.017	36.945	1.00 15.75	N
ATOM	5097	CA			300	18.616 19.960	44.408	38.125	1.00 16.03	C
ATOM ATOM	5099 5102	CB			300 300	21.037	45.046	37.765	1.00 16.08	C
ATOM	5102	CG CD			300	22.162	44.091 44.827	37.367 36.691	1.00 16.28 1.00 16.76	C
ATOM	5106	OE1			300	22.495	45.921	37.113	1.00 18.65	0
ATOM	5107	NE2			300	22.729	44.256	35.635	1.00 17.16	И
ATOM	5110	C			300	17.801	45.452	38.869	1.00 17.10	C
ATOM	5111	ŏ			300	17.594	45.347	40.075	1.00 16.44	ő
MOTA	5112	N			301	17.379	46.489	38.147	1.00 16.69	N
ATOM	5114	CA			301	16.582	47.549	38.751	1.00 17.30	Ċ
ATOM	5116	CB			301	16.212	48.604	37.713	1.00 17.31	Č
MOTA	5118	CG1			301	17.386	49.547	37.487	1.00 18.26	C C
MOTA	5121		ILE			17.252	50.424	36.211	1.00 18.99	С
MOTA	5125	CG2	ILE			15.010	49.390	38.158	1.00 17.43	С
MOTA	5129	С			301	15.314	46.991	39.389	1.00 17.65	С
MOTA	5130	0			301	14.943	47.392	40.474	1.00 18.77	0
MOTA	5131	N			302	14.653	46.069	38.718	1.00 17.35	N
ATOM	5133	CA			302	13.410	45.554	39.208	1.00 17.68	C
ATOM	5135		ALA			12.670	44.722	38.070	1.00 17.98	C
ATOM ATOM	5139 5140	C			302 302	13.638 12.785	44.702	40.463	1.00 18.37	C
ATOM	5140	O N			303		44.672 43.988	41.359 40.544	1.00 18.56 1.00 18.70	. 0
ATOM	5143	CA			303	15.010	43.181	41.743		N C
ATOM	5145	CB			303	16.131	42.160	41.550	1.00 19.10	C
ATOM	5148	CG			303	15.921	41.116	40.456	1.00 19.63	Č
ATOM	5150		LEU			17.184	40.296	40.243	1.00 19.51	č
ATOM	5154		LEU			14.704	40.222	40.770	1.00 20.37	Č
ATOM	5158	С			303	15.315	44.089	42.927	1.00 19.53	Č
MOTA	5159	0			303	14.855	43.820	44.029	1.00 19.40	ō
ATOM	5160	N			304	16.067	45.164	42.696	1.00 20.29	N
ATOM	5162	CA			304	16.414	46.076	43.770	1.00 21.41	C
MOTA	5164	CB	LEU	В	304	17.634	46.895	43.428	1.00 21.75	С
MOTA	5167	CG			304	18.982	46.131	43.413	1.00 24.86	C
MOTA	5169		LEU			20.059	46.873	42.548	1.00 25.83	С
ATOM	5173		LEU			19.577	45.925	44.776	1.00 25.83	C
MOTA	5177	C			304	15.228	46.974	44.198	1.00 21.93	C
ATOM	5178	0			304	15.114	47.265	45.391	1.00 21.91	0
ATOM	5179	N			305	14.324	47.362	43.284	1.00 22.09	N
ATOM	5181	CA	пιр	B	305	13.119	48.093	43.698	1.00 22.86	С
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ATOM	5183	CB	LYS E	3 3 0 5	12.230	48.461	42.517	1.00 23.46
ATOM	5186	CG	LYS E	3 305	12.565	49.779	41.914	1.00 27.72
ATOM	5189	CD	LYS E		11.368	50.518	41.287	1.00 27.72
ATOM	5192	CE	LYS E		11.958	51.725	40.463	1.00 31.54
ATOM	5195	NZ	LYS E		11.003	52.390		1.00 33.94
ATOM	5199	C	LYS E		12.253		39.507	1.00 35.51
ATOM	5200	ŏ	LYS E			47.312	44.692	1.00 22.71
ATOM	5200	N			11.634	47.877	45.582	1.00 23.22
ATOM			ALA E		12.176	46.011	44.509	1.00 22.44
	5203	CA	ALA E		11.287	45.195	45.294	1.00 21.84
ATOM	5205	CB	ALA E		10.852	44.021	44.489	1.00 21.78
ATOM	5209	С	ALA E		11.985	44.734	46.574	1.00 21.85
MOTA	5210	0	ALA E		11.387	44.778	47.648	1.00 21.97
ATOM	5211	N	SER E	3 307	13.245	44.298	46.464	1.00 21.25
ATOM	5213	CA	SER E	307	13.925	43.658		1.00 20.58
MOTA	5215	CB	SER E	307	15.040	42.740	47.110	1.00 19.92
ATOM	5218	OG	SER E	307	15.948	43.478	46.369	1.00 21.56
ATOM	5220	С	SER E		14.491	44.664	48.592	1.00 21.36
ATOM	5221	Ö	SER E		14.849	44.277		
ATOM	5222	N	THR E		14.550	45.947.	49.686	1.00 20.12
ATOM	5224	CA	THR E		15.229			1.00 19.53
ATOM	5226	СВ	THR E			46.952	49.060	1.00 18.86
ATOM	5228	OG1	THR E		15.309	48.319	48.323	1.00 18.63
ATOM	5230				16.445	48.318	47.466	1.00 16.35
		CG2	THR E		15.592	49.455	49.275	1.00 18.82
ATOM	5234	C.	THR E		14.612	47.099	50.456	1.00 18.81
ATOM	5235	0	THR E		15.308	46.991	51.470	1.00 19.34
ATOM	5236	N	ILE B		13.318	47.340	50.512	1.00 18.64
ATOM	5238	CA	ILE B		12.636	47.468	51.791	1.00 18.62
ATOM	5240	CB	ILE B		11.142	47.861	51.596	1.00 18.32
ATOM	5242	CG1	ILE B		10.484	48.168	52.933	1.00 18.77
MOTA	5245	CD1	ILE B	309	11.060	49.377	53.632	1.00 20.64
ATOM	5249	CG2	ILE B	309	10.368	46.774	50.898	1.00 18.60
MOTA	5253	С	ILE B	309	12.820	46.171	52.564	1.00 18.73
MOTA	5254	0	ILE B	309	13.185	46.183	53.730	1.00 18.87
MOTA	5255	N	GLU B	310	12.650	45.045	51.890	1.00 18.92
MOTA	5257	CA	GLU B		12.748	43.765	52.577	1.00 10.32
ATOM	5259	CB	GLU B		12.283	42.585	51.681	
ATOM	5262	CG	GLU B		10.846	42.760	51.182	
ATOM	5265	CD	GLU B		10.416	41.734	50.166	
ATOM	5266	OE1			10.970	40.632		1.00 17.06
ATOM	5267	OE2			9.517		50.150	1.00 18.95
ATOM	5268	C	GLU B		14.153	42.049	49.385	1.00 15.70
ATOM	5269	ŏ	GLU B			43.556	53.164	1.00 19.28
ATOM	5270	N	ILE B		14.275	43.145	54.297	1.00 20.06
ATOM	5272	CA	ILE B		15.207	43.841	52.426	1.00 19.11
ATOM	5274	CB	ILE B		16.549	43.727	52.981	1.00 19.43
ATOM	5276				17.584	44.028	51.873	1.00 19.38
ATOM	5279	CGT	ILE B	211	17.584	42.886	50.853	1.00 21.23
ATOM			TLE B		18.328	43.161	49.548	1.00 21.91
	5283		ILE B	311	18.974	44.144	52.425	1.00 19.92
ATOM	5287	C	ILE B		16.668	44.677	54.216	1.00 19.73
ATOM .	5288	0	ILE B		17.214	44.305	55.261	1.00 19.63
MOTA	5289	N	MET B		16.111	45.888	54.106	1.00 19.63
MOTA	5291	CA	MET B		16.140		55.207	1.00 19.06
ATOM	5293	CB	MET B		15.467	48.164	54.811	1.00 18.57
MOTA	5296	CG	MET B	312	16.294	49.026	53.923	1.00 19.46
MOTA	5299	SD	MET B	312	15.294	50.248	53.037	1.00 19.46
ATOM	5300	CE	MET B		15.641	51.542	53.930	
ATOM	5304	C	MET B		15.461	46.264	56.451	1.00 27.05
ATOM	5305	Õ	MET B		15.933	46.461	57.565	1.00 18.73
ATOM	5306	N	LEU B		14.357	45.546		1.00 18.21
ATOM	5308	CA	LEU B		13.606		56.248	1.00 18.54
ATOM	5310	CB	LEU B		12.261	44.939 44.396	57.357	1.00 18.41
	-		D	213	12.201	44.390	56.876	1.00 17.85

ATOM	5313	CG	LEU	В	313	11.193	45.454	56.757	1.00 18.52	С
ATOM	5315		LEU			10.155	44.996	55.724	1.00 19.77	Č
ATOM	5319		LEU			10.548	45.721	58.115	1.00 18.67	Ċ
ATOM	5323		LEU			14.382	43.816	58.035	1.00 18.44	С
ATOM	5324	O	LEU			14.256	43.619	59.221	1.00 16.86	0
MOTA	5325	N	LEU			15.143	43.070	57.238	1.00 19.37	N
ATOM	5327	CA	LEU		314	16.043	42.042	57.722	1.00 20.48	C
MOTA	5329	CB	LEU	В	314	16.708	41.300	56.539	1.00 20.72	С
ATOM	5332	CG	LEU	В	314	16.283	39.877	56.126	1.00 22.28	C
ATOM	5334	CD1	LEU	В	314	15.200	39.194	57.028	1.00 22.02	С
ATOM	5338	CD2	LEU	В	314	15.826	39.912	54.674	1.00 24.01	С
ATOM	5342	С	LEU	В	314	17.132	42.690	58.574	1.00 20.74	С
ATOM	5343	0	LEU	В	314	17.544	42.140	59.580	1.00 20.37	0
ATOM	5344	N	GLU			17.581	43.864	58.144	1.00 21.40	N
MOTA	5346	CA	GLU	В	315	18.733	44.534	58.729	1.00 21.89	С
MOTA	5348	CB	GLU	В	315	19.338	45.547	57.731	1.00 22.24	С
ATOM	5351	CG	GLÜ			20.322	44.933	56.737	1.00 23.69	C C
MOTA	5354	CD	GLU	В	315	21.575	44.379	57.398	1.00 27.48	C
ATOM	5355	OE1				22.095	45.017	58.310	1.00 31.94	0
MOTA	5356	OE2				22.056	43.300	57.029	1.00 31.90	0
MOTA	5357	C			315	18.300	45.192	60.016	1.00 21.60	C
ATOM	5358	0			315	19.024	45.189	61.009	1.00 21.91	0
MOTA	5359	N			316	17.097	45.733	59.984	1.00 21.60	N
MOTA	5361	CA			316	16.403	46.195	61.177	1.00 21.80	C
MOTA	5363	CB			316	15.031	46.791	60.788	1.00 22.31	C
MOTA	5365		THR			15.237	47.956	59.981	1.00 23.26	0
MOTA	5367	CG2			316	14.255	47.346	62.002	1.00 22.77	C
MOTA	5371	C			316	16.246	45.094	62.210	1.00 21.08	C
MOTA	5372	0			316	16.609	45.283	63.341	1.00 21.20	0
MOTA	5373	N			317	15.745	43.935	61.824	1.00 21.00	N
MOTA	5375	CA			317	15.554	42.836	62.770	1.00 20.86	C
MOTA	5377	CB			317	14.841	41.671	62.116	1.00 20.23	C
MOTA	5381	C			317	16.893	42.390 42.112	63.328 64.524	1.00 21.61 1.00 20.97	0
ATOM	5382	0			317	17.018 17.903	42.112	62.463	1.00 20.97	N
MOTA	5383 5385	N			318 318	19.226	41.827	62.796	1.00 24.26	C
MOTA MOTA	5387	CA			318	20.116	41.839	61.554	1.00 24.20	č
ATOM	5390	CG			318	21.565	41.506	61.785	1.00 27.30	č
ATOM	5393	CD			318	22.441	41.899	60.624	1.00 31.26	Č
ATOM	5396	NE			318	23.506	40.917	60.464	1.00 35.50	N
ATOM	5398	CZ			318	23.922	40.419	59.298	1.00 39.04	C
ATOM	5399		ARG			23.378	40.814	58.141	1.00 40.24	N
ATOM	5402		ARG			24.899	39.516	59.287	1.00 40.03	N
ATOM	5405	C			318	19.865	42.652	63.893	1.00 24.70	C
MOTA	5406	O	ARG	В	318	20.676	42.149	64.669	1.00 24.10	0
ATOM	5407	N	ARG	В	319	19.481	43.923	63.941	1.00 25.45	N
ATOM	5409	CA	ARG	В	319	20.015	44.864	64.915	1.00 26.42	C
ATOM	5411	CB	ARG	В	319	20.334	46.168	64.194	1.00 27.16	С
ATOM	5414	CG			319	21.829	46.223	63.790	1.00 31.66	С
MOTA	5417	CD			319	22.152	47.171	62.655	1.00 36.71	С
MOTA	5420	NE			319	22.671	46.475	61.483	1.00 40.23	N
ATOM	5422	CZ			319	23.531	47.013	60.638	1.00 43.84	C
ATOM	5423		ARG			23.969	48.264	60.829	1.00 45.76	N
ATOM	5426		ARG			23.975	46.303	59.604	1.00 44.34	N
ATOM	5429	C			319	19.124	45.106	66.139	1.00 25.53	C
ATOM	5430	0			319	19.473	45.867	67.026	1.00 26.02	0
ATOM	5431	N			320	17.994	44.421	66.196	1.00 24.69	N
ATOM	5433	CA			320	17.080		67.331	1.00 23.67	C
ATOM	5435	CB			320	15.796		67.020	1.00 23.61	C
MOTA	5438	CG CD1			320 320	14.850		68.179 68.620	1.00 22.41 1.00 22.51	C
ATOM	5439		. IIK		320	14.200	44.809	55.020	1.00 22.31	C
										

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5441 5443 5444 5446 5448 5450 5451 5452 5454	CE1 CZ OH CE2 CD2 C O N CA	TYR E ASN E	3 320 3 320 3 320 3 320 3 320 3 320 3 321 3 321	13.309 13.084 12.216 13.735 14.606 17.709 18.388 17.443 18.003	44.769 43.567 43.506 42.414 42.470 43.904 42.900 44.534 44.149	69.698 70.356 71.426 69.925 68.832 68.573 68.515 69.698 70.973	1.00 23.50 1.00 23.49 1.00 22.21 1.00 23.51 1.00 22.26 1.00 22.89 1.00 22.88 1.00 22.27 1.00 21.53
ATOM ATOM	5456 5459	CB CG	ASN B		19.019 19.546	45.211	71.389	1:00 21.58
ATOM	5460		ASN B		18.880	45.038 44.505	72.808 73.707	1.00 21.22 1.00 21.24
ATOM	5461		ASN B		20.753	45.527	73.018	1.00 21.24
ATOM	5464	С	ASN B		16.814	44.048	71.923	1.00 21.27
ATOM	5465	0	ASN B		16.111	45.024	72.171	1.00 19.93
MOTA MOTA	5466 5468	N CA	HIS B		16.588	42.842	72.427	1.00 21.61
ATOM	5470	CB	HIS B		15.390 15.038	42.538 41.042	73.194	1.00 21.93
ATOM	5473	CG	HIS B		13.659	40.684	73.048 73.529	1.00 22.03 1.00 22.23
MOTA	5474		HIS B		12.533	41.407	73.188	1.00 21.02
MOTA	5476		HIS B		11.475	40.862	73.759	1.00 21.69
ATOM .	5478		HIS B		11.872	39.810	74.456	1.00 21.62
ATOM ATOM	5480 5482	CD2	HIS B		13.233	39.681	74.336	1.00 21.10
ATOM	5483	0	HIS B		15.504 14.503	42.972 43.043	74.668 75.371	1.00 21.69 1.00 20.75
ATOM	5484	Ň	GLU B		16.708	43.279	75.127	1.00 20.75
MOTA	5486	CA	GLU B	323	16.858	43.883	76.452	1.00 23.45
ATOM	5488	CB	GLU B		18.324	44.065	76.840 ·	1.00 24.19
ATOM ATOM	5491 5494	CG CD	GLU B		19.113	42.867	77.348	1.00 26.76
ATOM	5495		GLU B		20.561 21.284	43.291 43.480	77.602 76.576	1.00 30.16
ATOM .	5496	OE2	GLU B		20.948	43.500	78.797	1.00 31.88 1.00 30.01
MOTA	5497	С	GLU B	323	16.234	45.280	76.497	1.00 23.08
ATOM	5498	0 .	GLU B		15.527	45.616	77.451	1.00 23.13
ATOM ATOM	5499 5501	N CA	THR B		16.547	46.085	7.5.474	1.00 22.66
ATOM	5503	CB	THR B		16.163 17.344	47.498 48.329	75.392	1.00 21.95
ATOM	5505	OG1	THR B		17.583	47.969	74.827 73.465	1.00 21.80 1.00 21.23
ATOM	5507	CG2	THR B		18.657	47.994	75.515	1.00 20.93
ATOM	5511	C	THR B		14.920	47.715	74.514	1.00 21.94
ATOM ATOM	5512 5513	О И	THR B		14.306	48.787	74.536	1.00 21.72
ATOM	5515	CA	GLU B	325 325	14.554 13.502	46.685 46.756	73.756 72.736	1.00 22.08
ATOM	5517	СВ	GLU B		12.116	46.851	73.401	1.00 22.38 1.00 22.40
MOTA	5520	CG	GLU B	325	11.987	45.854	74.552	1.00 24.15
MOTA	5523	CD	GLU B		10.606	45.742	75.186	1.00 26.69
ATOM ATOM	5524 5525		GLU B		10.458	46.045	76.403	1.00 27.58
ATOM	5526	C C	GLU B		9.676 13.801	45.302 47.867	74.487	1.00 29.29
ATOM	5527	ŏ	GLU B		12.936	48.611	71.712 71.302	1.00 22.25 1.00 21.35
MOTA	5528	N	CYS B	326	15.058	47.939	71.299	1.00 22.98
ATOM	5530	CA	CYS B		15.511	48.981	70.405	1.00 23.87
ATOM ATOM	5532 5535	CB	CYS B		16.413	49.983	71.132	1.00 23.67
ATOM	5536	SG C	CYS B		15.550 16.286	51.068 48.416	72.285	1.00 21.30
ATOM	5537	ō	CYS B		17.039	47.443	69.240 69.379	1.00 25.69 1.00 26.02
MOTA	5538	N	ILE B		16.126	49.093	68.106	1.00 27.55
ATOM	5540	CA	ILE B	327	16.757	48.752	66.845	1.00 28.95
ATOM	5542 5544	CB	ILE B		15.708	48.907	65.725	1.00 28.96
ATOM ATOM	5544 5547	CG1	ILE B		15.026 13.599	47.557	65.493	1.00 29.19
	- ·		-,, 1)	J2 1	13.333	47.545	65.870	1.00 29.18

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5555 5555 5555 5555 5556 5556 5557 5557	C O N CA CB OG1 CCA CB CCA CCB CCA CCB CCCA CCCA CCCCCCCC	ILE ILE THR THR THR THR THR PHE PHE PHE PHE PHE PHE PHE PHE PHE ALA ALA	888888888888888888888	327 328 328 328 328 328 328 329 329 329 329 329 329 329 329 329 329	16.303 17.955 17.883 19.056 20.318 21.492 21.413 22.852 20.484 20.061 21.045 21.391 20.269 20.046 19.591 19.370 19.600 20.061 20.277 22.685 23.031 23.401 24.692 24.448	49.455 49.657 50.865 49.049 49.747 48.901 48.902 49.507 50.039 49.246 51.196 51.481 52.256 51.887 50.585 50.251 51.240 52.534 52.845 52.267 52.983 52.784 54.292	64.451 66.619 66.817 66.197 65.921 66.500 67.934 66.178 64.391 63.527 64.055 62.674 61.999 60.547 60.170 58.774 57.779 58.160 59.539 62.636 63.605 61.519 61.250 60.856	1.00 28.76 1.00 30.54 1.00 30.82 1.00 32.63 1.00 34.04 1.00 33.69 1.00 33.36 1.00 35.61 1.00 36.66 1.00 36.66 1.00 37.46 1.00 37.23 1.00 37.23 1.00 35.32 1.00 32.44 1.00 32.28 1.00 32.50 1.00 38.95 1.00 39.29 1.00 40.52 1.00 41.72 1.00 41.87	002000000000000000000000000000000000000
ATOM ATOM	5595 5599	СБ	ALA			25.755	52.665	62.382	1.00 42.50	C
MOTA	5600	0	ALA	В	330	26.510	53.613	62.635	1.00 42.94	0
MOTA	5601	N	LYS			25.796 26.769	51.501 51.187	63.047 64.109	1.00 42.97 1.00 42.98	N C
ATOM ATOM	5603 5605	CA CB	LYS LYS			28.154	51.107	63.813	1.00 42.98	c
ATOM	5608	CG	LYS			29.367	50.949	64.245	1.00 44.35	Č
ATOM	5611	CD	LYS			30.132	51.529	65.477	1.00 44.51	С
ATOM	5614	CE	LYS			31.650	51.256	65.436	1.00 43.98	C
MOTA	5617	NZ	LYS			32.088	50.219	66.425	1.00 43.27	И
ATOM	5621	C	LYS			26.321	51.574	65.528	1.00 42.54 1.00 42.68	C 0
ATOM ATOM	5622 5623	O N	LYS ASP			26.393 25.870	50.745 52.816	66.441 65.715	1.00 42.86	N
ATOM	5625	CA	ASP			25.744	53.405	67.066	1.00 41.27	Ċ
ATOM	5627	СВ			332	26.648	54.643	67.166	1.00 41.37	С
MOTA	5630	CG			332	27.916	54.376	67.939	1.00 43.32	С
MOTA	5631		ASP			27.800	53.754	69.015	1.00 45.82	0
MOTA	5632		ASP		332	29.066 24.324	54.755 53.807	67.569 67.519	1.00 45.99 1.00 40.06	O C
MOTA MOTA	5633 5634	C O			332	23.973	53.629	68.694	1.00 40.00	ő
MOTA	5635	Ŋ			333	23.535	54.375	66.597	1.00 38.31	N
ATOM	5637	CA			333	22.264	55.048	66.929	1.00 36.53	С
ATOM	5639	CB			333	21.821	55.986	65.783	1.00 36.85	C
ATOM	5642	CG			333	22.803 22.727	57.109 57.744	65.449 64.202	1.00 37.25 1.00 37.78	C
ATOM ATOM	5643 5645		PHE PHE			23.602	58.776	63.859	1.00 37.78	C
ATOM	5647	CZ			333	24.579	59.191	64.762	1.00 37.96	Č
MOTA	5649		PHE			24.676	58.572	66.010	1.00 38.44	С
ATOM	5651	CD2	PHE			23.782	57.535	66.354	1.00 38.00	C
ATOM	5653	C			333	21.173	54.003	67.152	1.00 34.39	C
ATOM ATOM	5654 5655	O N			333 334	21.133 20.298	53.011 54.213	66.425 68.142	1.00 34.49 1.00 31.37	O N
ATOM	5657	CA			334	19.233	53.245	68.423	1.00 31.37	C
MOTA	5659	СВ			334	19.489	52.472	69.735	1.00 28.73	С
ATOM	5661		THR			19.395	53.347	70.856	1.00 27.84	0
MOTA	5663	CG2			334	20.913	51.951	69.798	1.00 28.88	C
MOTA ATOM	5667 5668	C			334	17.885 17.776	53.907 55.056	68.487 68.881	1.00 27.01 1.00 26.50	C
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ATOM	5669	N	TYR I	3 335	16.857	53.163	68.094	1.00 25.11
ATOM	5671	CA	TYR I		15.482	53.674	68.054	1.00 23.96
ATOM	5673	CB		3 335	15.043	53.947	66.594	1.00 23.57
MOTA	5676	CG	TYR I		16.081	54.764	65.863	1.00 22.27
ATOM	5677	CD1	TYR I		17.128	54.140	65.207	1.00 20.83
MOTA	5679	CE1	TYR I		18.116	54.874	64.591	1.00 21.68
ATOM	5681	CZ	TYR I		.18.077	56.255	64.643	1.00 21.74
ATOM ATOM	5682 5684	OH CE2	TYR I		19.076	56.954	64.007	1.00 22.73
ATOM	5686		TYR I		17.057 16.070	56.908	65.313	1.00 20.42
ATOM	5688		·TYR I		14.527	56.163 52.719	65.920	1.00 20.65
ATOM	5689	õ		3 335	14.706	51.506	68.769 68.715	1.00 23.17 1.00 22.58
ATOM	5690	N		336 .	13.536	53.282	69.456	1.00 22.38
ATOM	5692	CA	SER I		12.465	52.499	70.058	1.00 22.23
MOTA	5694	СВ		3 3 3 6	12.186	53.014	71.455	1.00 21.67
MOTA	5697	OG	SER E	3 336	11.627	54.304	71.383	1.00 20.32
ATOM	5699	С	SER I	3 336	11.171	52.601	69.229	1.00 22.21
ATOM	5700	0	SER I		11.056	53.445	68.355	1.00 22.11
ATOM ·	5701	N	LYS I		10.192	51.751	69.532	1.00 22.30
ATOM	5703	CA	LYS I		8.848	51.861	68.971	1.00 22.58
ATOM	5705	CB	LYS I		7.838	51.000	69.766	1.00 22.86
ATOM ATOM	5708 5711	CG	LYS E		7.845	49.503	69.388	1.00 25.37
ATOM	5711	CD CE	LYS E		6.937	48.610	70.288	1.00 28.27
ATOM	5717	NZ	LYS I		7.472 8.733	48.443 47.647	71.774	1.00 29.61
ATOM		·C	LYS E		8.395	53.315	71.941 68.969	1.00 28.77 1.00 22.19
ATOM	5722	ō	LYS E		7.792	53.773	68.012	1.00 22.19
ATOM	5723	N	ASP E		8.688	54.035	70.047	1.00 22.23
ATOM	5725	CA	ASP F		8.183	55.401	70.219	1.00 22.28
ATOM	5727	CB	ASP E	338	8.176	55.799	71.694	1.00 22.08
ATOM	5730	CG	ASP E		7.074	55.120	72.462	1.00 22.94
ATOM	5731		ASP E		6.945	55.394	73.666	1.00 26.13
ATOM	5732		ASP E		6.268	54.313	71.955	1.00 23.05
ATOM	5733	C		3 338	8.939	56.433	69.387	1.00 22.00
ATOM ATOM	5734 5735	0	ASP E		8.362	57.451	69.002	1.00 21.99
ATOM	5737	N CA	ASP E		10.217 10.983	56.178	69.122	1.00 21.47
ATOM	5739	CB	ASP E		12.451	57.016 56.590	68.209 68.187	1.00 21.22
ATOM	5742	CG	ASP E		13.153	56.814	69.514	1.00 21.14 1.00 19.12
ATOM	5743		ASP E		12.607	57.516	70.397	1.00 19.12
ATOM	5744		ASP E		14.272	56.317	69.737	1.00 15.17
ATOM	5745	С	ASP E	339	10.395	56.922	66.805	1.00 21.49
	5746	0	ASP E		10.181	57.936	66.157	1.00 21.88
ATOM	5747	N	PHE E		10.124	55.703	66.355	1.00 21.61
MOTA			PHE E		9.421	55.456	65.104	1.00 22.23
		CB	PHE E		9.155	53.956	64.950	1.00 22.07
		CG	PHE E		10.312	53.168	64.340	1.00 22.43
	5757	CE1	PHE E	340	11.454	52.904	65.060	1.00 21.40
		CZ	PHE E		12.484 12.390	52.181 51.679	64.526	1.00 21.44
			PHE E		11.249	51.897	63.267 62.520	1.00 24.00 1.00 24.73
	5763	CD2	PHE E	340	10.217		63.057	1.00 24.73
MOTA	5765		PHE E		8.085	56.224	65.016	1.00 24.99
MOTA	5766		PHE E		7.752	56.773	63.975	1.00 23.00
		N	HIS E	341	7.337	56.258	66.119	1.00 24.44
		CA	HIS E	341	6.057	56.966	66.211	1.00 25.29
			HIS E		5.207	56.459	67.399	1.00 25.49
			HIS E		3.867	57.130	67.497	1.00 29.92
			HIS E		2.912	57.037	66.504	1.00 34.31
			HIS E			57.767	66.834	1.00 35.62
		11112	HIS E	247	2.092	58.339	68.004	1.00 35.84

ATOM ATOM ATOM ATOM	5781 5783 5784 5785	C O	HIS HIS HIS ARG	B B	341 341 341 342	3.349 6.269 5.413 7.403	57.971 58.470 59.248 58.886	68.434 66.325 65.912 66.884	1.00 34.74 1.00 25.32 1.00 25.52 1.00 25.67	C C O
MOTA	5787		ARG		342	7.733	60.315	67.005	1.00 25.80	C
ATOM	5789		ARG		342	8.877 8.462	60.541 60.654	67.983 69.435	1.00 26.04 1.00 27.57	. C .
ATOM ATOM	5792 5795	CG CD	ARG ARG		342 342	9.666	60.676	70.390	1.00 27.37	č
MOTA	5798	NE	ARG		342	9.657	59.520	71.283	1.00 31.90	N
ATOM	5800	CZ	ARG		342	9.249	59.536	72.543	1.00 33.91	С
ATOM	5801	NH1				8.818	60.659	73.121	1.00 34.20	N
MOTA	5804	NH2				9.271	58.405	73.236	1.00 35.42	N
ATOM	5807	C	ARG ARG			8.138 8.109	60.889 62.099	65.663 65.486	1.00 25.34 1.00 25.43	C 0
ATOM ATOM	5808 5809	O N	ALA			8.526	60.000	64.743	1.00 24.91	N
ATOM	5811	CA	ALA			8.843	60.320	63.348	1.00 24.59	С
ATOM	5813	СВ			343	9.897	59.295	62.806	1.00 24.44	С
MOTA	5817	С			343	7.596	60.310	62.444	1.00 24.35	. C
MOTA	5818	0			343	7.723	60.401	61.238 63.031	1.00 24.68 1.00 24.10	. O
MOTA	5819 5821	N CA	GLY		344 344	6.406 5.129	60.159 60.248	62.335	1.00 24.10	C
MOTA MOTA	5821	C	GLY		344	4.644	58.972	61.669	1.00 23.22	Č
ATOM	5825	Ö			344	3.623	58.977	60.969	1.00 23.29	0
ATOM	5826	N	LEU	B	345	5.386	57.883	61.834	1.00 22.86	N
ATOM	5828	CA			345	4.956	56.594	61.301	1.00 22.72	C
ATOM	5830	CB	LEU			6.100	55.563 55.885	61.268 60.835	1.00 22.72 1.00 22.71	C
ATOM ATOM	5833 5835	CG CD1	LEU		345	7.542 8.243	54.642	60.289	1.00 23.31	C C C
ATOM	5839		LEU			7.591	56.950	59.811		С
ATOM	5843	C	LEU		345	3.789	56.098	62.161	1.00 22.68	C
MOTA	5844	0	LEU	В	345	3.644	56.491	63.315	1.00 22.90	0
MOTA	5845	N	GLN			2.941	55.263	61.577	1.00 22.89	N
MOTA	5847	CA CB	GLN GLN		346 346	1.715 0.550	54.789 54.784	62.221 61.225	1.00 22.82 1.00 22.68	C
ATOM ATOM	5849 5852	CG			346	0.687	53.739	60.126	1.00 22.89	č
ATOM	5855	CD	GLN		346	-0.168	53.998	58.906	1.00 22.91	С
MOTA	5856	OE1	GLN		346	-1.027	54.876	58.899	1.00 25.22	0
ATOM	5857		GLN			0.059	53.219	57.874	1.00 22.78	N
ATOM	5860	C			346	1.919	53.394	62.798 62.400	1.00 22.78 1.00 22.46	C 0
ATOM ATOM	5861 5862	И О	GLN VAL			2.836 1.042	52.673 53.025	63.724	1.00 22.46	Ŋ
ATOM	5864	CA	VAL			1.178	51.779	64.471	1.00 22.84	Ċ
MOTA	5866	CB			347	0.220	51.775	65.691	1.00 23.00	С
MOTA	5868		VAL		347	-0.117	50.386	66.156	1.00 23.34	C
ATOM	5872		VAL			0.876	52.539	66.834	1.00 23.60	C
ATOM ATOM	5876 5877	С 0			347 347	1.004 1.561	50.553 49.473	63.575 63.850	1.00 22.61 1.00 22.18	C 0
ATOM	5878	N			348	0.288	50.742	62.474	1.00 22.39	Ŋ
ATOM	5880	CA			348	-0.002	49.652	61.540	1.00 22.40	С
MOTA	5882	CB			348	-1.058	50.089	60.518	1.00 22.76	С
MOTA	5885	CG			348	-2.452	50.344	61.111	1.00 24.13	C
ATOM	5888	CD	GLU		348	-2.650 -1.883		61.766 61.519	1.00 27.04 1.00 28.52	c 0
MOTA MOTA	5889 . 5890		GLU			-1.883 -3.600		62.559	1.00 20.32	0
ATOM	5891	C			348	1.258		60.860	1.00 21.34	č
ATOM	5892	ŏ	GLU	В	348	1.242	47.973	60.369	1.00 20.76	0
ATOM	5893	N			349	2.345		60.901	1.00 20.77	· N
ATOM	5895	CA			349	3.660		60.322	1.00 20.45	C
ATOM ATOM	5897 5900	CB CG			349 349	4.142 5.471		59.376 58.677	1.00 20.64 1.00 20.78	C
ATOM	5901				349	5.748		58.058	1.00 21.02	č

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ATOM	5903	CE1	DUE	B 349		6 060	40 000	F7 40F	
ATOM	5905					6.962	48.998	57.425	1.00 20.54
		CZ		B 349		7.903	50.006	57.374	1.00 19.72
ATOM	5907	CE2				7.641	51.199	57.957	1.00 19.91
MOTA	5909	CD2	PHE	B 349		6.433	51.401	58.611	1.00 21.36
ATOM	5911	С	PHE	B 349		4.690	49.228	61.413	1.00 19.62
ATOM	5912	0	PHE	B 349		5.443	48.274	61.329	
ATOM	5913	N	ILE			4.695	50.055		
ATOM	5915	CA		B 350.				62.444	1.00 19.19
ATOM	5917	CB				5.594	49.897	63.577	1.00 18.87
			ILE			5.414	51.034	64.548	1.00 18.54
ATOM	5919	CG1				5.726	52.360	63.858	1.00 17.95
ATOM	5922		·ILE			5.383	53.531	64.691	1.00 17.74
MOTA	5926	CG2	${\tt ILE}$	B 350		6.334	50.832	65.753	1.00 19.48
ATOM	5930	C	ILE	B 350		5.409	48.581	64.329	
MOTA	5931	0	ILE	B 350		6.384	47.876		1.00 19.31
ATOM	5932	N	ASN			4.181	48.239	64.704	1.00 19.09
ATOM	5934	CA	ASN			3.950	46.965	65.412	
ATOM	5936	CB	ASN						1.00 19.26
ATOM	5939	CG				2.492	46.861	65.878	1.00 19.30
ATOM			ASN			2.216	47.712	67.152	1.00 20.22
	5940		ASN			3.090	48.471		1.00 21.96
ATOM	5941		ASN			1.007	47.591	67.700	1.00 18.64
ATOM	5944	С	ASN			4.444	45.666	64.696	1.00 19.13
ATOM	5945	0	ASN :	B 351		5.173	44.873	65.296	1.00 19.31
ATOM	5946	N	PRO	B 352		4.075	45.437	63.440	1.00 18.65
ATOM	5947	CA	PRO :	B 352		4.681	44.364	62.662	1.00 18.12
ATOM	5949	CB	PRO :			4.065	44.552	61.266	
ATOM	5952	CG		B · 352		2.818	45.308		
ATOM	5955	CD	PRO					61.446	1.00 18.44
ATOM	5958	C	PRO			2.988	46.109	62.701	1.00 19.18
ATOM	5959					6.207	44.405	62.573	1.00 18.36
		0	PRO			6.810	43.341	62.449	1.00 17.33
ATOM	5960	N	ILE 1			6.825	45.592	62.589	1.00 18.97
ATOM	5962	CA	ILE 1			8.288	45.681	62.464	1.00 19.14
ATOM	5964	CB.	ILE !	B 353		8.774	47.129	62.282	1.00 19.20
ATOM	5966	CG1	ILE I	B 353		8.540	47.569	60.853	1.00 19.84
ATOM	5969	CD1	ILE 1	B 353		8.603	49.046	60.689	1.00 20.86
ATOM	5973	CG2			-	10.270	47.257	62.522	1.00 19.89
ATOM	5977	C	ILE I			8.914	45.071	63.688	
ATOM	5978	ō	ILE I			9.826	44.235	63.586	
ATOM	5979	N	PHE			8.403			1.00 19.15
ATOM	5981	CA		3 354		8.901	45.469	64.848	1.00 19.09
ATOM	5983	CB	PHE I				44.932	66.096	1.00 19.08
ATOM	5986					8.569	45.857	67.270	1.00 18.93
ATOM		CG	PHE I			9.445	47.079	67.300	1.00 19.28
	5987	CD1		3 3 5 4		9.290	48.079	66.355	1.00 20.06
ATOM	5989		PHE I			10.109	49.170	66.355	1.00 20.21
ATOM	5991		PHE		1	11.132	49.277	67.298	1.00 19.30
MOTA	5993	CE2	PHE I	3 354	1	11.310	48.294	68.222	1.00 18.03
ATOM	5995	CD2	PHE B	354	1	LO.477	47.194	68.215	1.00 19.43
ATOM	5997	С	PHE F	354		8.503	43.477	66.317	1.00 19.16
ATOM	5998	0	PHE I			9.312	42.712	66.838	1.00 19.01
ATOM	5999	N	GLU E			7.319	43.044	65.896	1 00 10 55
ATOM	6001	CA	GLU E			7.033			1.00 19.55
ATOM	6003	CB	GLU E	355			41.602	65.991	1.00 20.22
ATOM	6006	CG				5.584	41.249	65.739	1.00 20.39
ATOM			GLU E			5.296	39.739	65.801	1.00 23.59
	6009	CD	GLU F			5.522	39.066	67.171	1.00 27.11
ATOM	6010	OE1	GLU E	355		5.991	37.908	67.182	1.00 28.26
MOTA	6011		GLU E			5.219	39.653	68.243	1.00 28.91
ATOM	6012	Ċ	GLU E			7.942	40.799	65.060	1.00 19.88
ATOM	6013	0	GLU E	355		8.464	39.773	65.459	1.00 20.45
ATOM	6014	N	PHE E			8.166	41.274	63.848	1.00 19.33
ATOM	6016	CA	PHE E		-	9.088	40.612	62.932	1.00 19.33
ATOM	6018	СВ	PHE E			9.210	41.408	61.611	
ATOM	6021	CG	PHE E		1	0.122	40.802	60.606	1.00 19.21 1.00 18.35
		-			_		-0.002	50.000	1.00 10.33
			-						

ATOM	6022	CD1	PHE	В	356	9.882	39.551	60.088	1.00 18.72	С
ATOM	6024		PHE			10.727	38.969	59.145	1.00 18.09	c
ATOM	6026	CZ	PHE			11.821	39.619	58.715	1.00 17.73	č
ATOM	6028		PHE		356	12.097	40.874	59.215	1.00 20.41	· Č
ATOM	6030		PHE			11.224	41.485	60.159	1.00 20.15	č
MOTA	6032	C	PHE			10.432	40.500	63.603	1.00 19.01	
ATOM	6033	ŏ	PHE			11.023	39.428	63.586	1.00 19.67	. 0
ATOM	6034	N	SER			10.923	41.593	64.200	1.00 18.61	N
ATOM	6036	CA	SER			12.296	41.620	64.729	1.00 17.87	Č
ATOM	6038	CB	SER			12.710	43.013	65.216	1.00 17.62	č
ATOM	6041	OG	SER			12.580	43.997	64.238	1.00 17.02	_
ATOM	6043	C	SER			12.396	40.664	65.895	1.00 18.01	осоиссси
ATOM	6044	Ö	SER			13.426	40.073	66.128	1.00 18.36	Õ
ATOM	6045	N	ARG			11.324	40.554	66.657	1.00 18.41	. О
ATOM	6047	CA	ARG			11.293	39.684	67.808	1.00 18.89	č
ATOM	6049	CB	ARG			10.030	39.931	68.629	1.00 19.21	č
ATOM	6052	CG	ARG			10.115	41.017	69.672	1.00 20.39	č
ATOM	6055	CD	ARG			8.930	41.002	70.639	1.00 23.01	č.
ATOM	6058	NE	ARG			7.661	41.293	69.956		. N
ATOM	6060	CZ	ARG			7.142	42.516	69.770	1.00 25.65	Č
ATOM	6061		ARG			7.758	43.611	70.218	1.00 26.41	Ň
ATOM	6064		ARG			5.992	42.659	69.119	1.00 25.90	N
ATOM	6067	C	ARG			11.299	38.249	67.294	1.00 19.27	Ċ
ATOM	6068	Ō			358	12.017	37.381	67.822	1.00 19.25	^
ATOM	6069	N			359	10.488	38.008	66.257	1.00 19.38	N C C C
ATOM	6071	CA			359	10.382	36.691	65.644	1.00 19.20	Ċ
ATOM	6073	СВ			359	9.350	36.675	64.528	1.00 19.07	ď
MOTA	6077	С			359	11.739	36.306	65.125	1.00 19.31	č
ATOM	6078	0			359	12.208	35.214	65.409	1.00 19.67	Ŏ
ATOM	6079	N			360	12.387	37.216	64.405	1.00 19.46	N
ATOM	6081	CA			360	13.712	36.946	63.853	1.00 20.16	N C
ATOM	6083	CB			360	14.200	38.114	62.979	1.00 20.19	Č
MOTA	6086	CG	MET		360	13.500	38.234	61.638	1.00 20.34	Č
ATOM	6089	SD			360	13.839	36.869	60.559	1.00 20.37	s
ATOM	6090	CE			360	15.479	37.155	60.204	1.00 23.09	S C
MOTA	6094	С	MET		360	14.739	36.642	64.966	1.00 20.38	Č
ATOM	6095	0			360	15.699	35.880	64.761	1.00 20.33	Ō
ATOM	6096	N	ARG		361	14.547	37.234	66.137	1.00 20.55	N
ATOM	6098	CA	ARG	В	361	15.459	36.982	67.218	1.00 20.88	C
ATOM	6100	CB	ARG	В	361	15.309	38.010	68.309	1.00 20.98	C
ATOM.	6103	CG	ARG	В	361	16.316	37.831	69.407	1.00 21.67	С
ATOM	6106	CD	ARG	В	361	16.153	38.821	70.511	1.00 23.20	С
ATOM	6109	NE	ARG		361	16.708	38.365	71.792	1.00 24.55	N
MOTA	6111	CZ			361	16.083	37.582	72.684	1.00 24.23	C
ATOM	6112				361			72.477	1.00 22.76	N
MOTA	6115		ARG			16.720	37.283	73.805	1.00 25.68	N
MOTA	6118	С			361	15.236	35.595	67.782	1.00 21.45	C
ATOM	6119	0			361	16.172	34.957	68.220	1.00 21.22	0
MOTA	6120	N			362	14.004	35.111	67.780	1.00 22.13	N
MOTA	6122	CA			362	13.752	33.788	68.325	1.00 22.86	C
MOTA	6124	CB			362	12.261	33.511	68.464	1.00 23.28	С
MOTA	6127	CG			362	11.541	34.326	69.483	1.00 24.48	С
MOTA	6130	CD			362	10.037	34.187	69.364	1.00 26.98	С
ATOM	6133	NE			362	9.338	35.435	69.665	1.00 28.73	N
ATOM	6135	CZ			362	8.333	35.946	68.954	1.00 30.48	С
ATOM	6136				362	7.875	35.341	67.860	1.00 29.56	N
ATOM	6139				362	7.780	37.091	69.350	1.00 32.91	N
MOTA	6142	C			362	14.368	32.709	67.446	1.00 22.90	С
ATOM	6143	0			362	14.557	31.585	67.890	1.00 23.17	0
ATOM	6144	N			363	14.656	33.032	66.195	1.00 23.09	N
ATOM	6146	CA	LEU	В	363	15:352	32.090	65.320	1.00 23.10	С

MOTA	6148	СВ	LEU	B. 363	15.051	32.383	63.856	1.00 23.37	
ATOM	6151	CG	LEU	B 363	13.746	31.828	63.325	1.00 23.37	
MOTA	6153			B 363	13.567	32.406	61.943	1.00 25.89	
MOTA	6157	CD2	LEU		13.789	30.290	63.294	1.00 25.28	
ATOM	6161	С		B 363	16.855	32.080	65.512	1.00 22.55	•
ATOM	6162	0	LEU	B 363	17.484	31.128	65.129	1.00 22.71	•
ATOM	6163	N	GLY	B 364	17.424	33.156	66.043	1.00 22.71	
ATOM	6165	CA	GLY	B 364	18.838	33.217	66.362	1.00 21.90	
MOTA	6168	С	GLY	B 364	19.769	32.980	65.197	1.00 21.74	
ATOM	6169	0	GLY	B 364	20.661	32.123	65.278	1.00 20.98	•
ATOM	6170	N	LEU	B 365	19.561	33.742	64.123	1.00 21.69	
ATOM	6172	CA		B 365	20.424	33.680	62.937	1.00 22.03	
. ATOM	6174	CB		B 365	19.770	34.385	61.742	1.00 22.39	
ATOM	6177	CG	LEU	B 365	18.297	34.184	61.338	1.00 23.57	•
ATOM	6179	CD1		B 365	18.132	34.588	59.929	1.00 24.90	
MOTA	6183	CD2		B 365	17.853	32.769	61.452	1.00 26.03	
ATOM	6187	С		B 365	21.827	34.294	63.161	1.00 21.97	
ATOM	6188	0		B 365	21.973	35.301	63.864	1.00 21.63	
ATOM	6189	N	ASP		. 22.852	33.669	62.571	1.00 21.97	•
ATOM	6191	CA	ASP		24.214	34.227	62.545	1.00 21.76	•
ATOM	6193	СВ		B 366	25.300	33.132	62.729	1.00 21.83	
ATOM	6196	CG		B 366	25.210	31.983	61.714	1.00 22.12	
ATOM	6197		ASP		24.858	32.219	60.531	1.00 23.46	
ATOM	6198			B 366	25.492	30.794	62.008	1.00 20.18	
ATOM	6199	C		B 366	24.399	35.040	61.259	1.00 21.52	
ATOM	6200	0	ASP	B 366	23.458	35.232	60.531	1.00 21.62	
MOTA	6201	N	ASP		25.600	35.530	60.991	1.00 21.93	
ATOM ATOM	6203	CA	ASP		25.869	36.363	59.809	1.00 21.96	
ATOM	6205 6208	CB	ASP		27.304	36.897	59.841	1.00 22.50	
ATOM	6209	CG	ASP		27.530	37.937	60.923	1.00 24.91	
ATOM	6210	ODI	ASP	B 367		38.629	61.362	1.00 26.49	
ATOM	6211	C C	ASP .	B 367	28.683	38.108	61.382	1.00 28.92	
ATOM	6212	Ö	ASP	B 367	25.714	35.640	58.496	1.00 20.99	
ATOM	6213	И		B 367 B 368	25.215	36.193	57.525	1.00 21.18	
ATOM	6215	CA.		B 368	26.218	34.423	58.459	1.00 19.97	
ATOM	6217	CB		B 368	26.045	33.556	57.318	1.00 19.75	
ATOM	6221	C		B 368	26.727	32.212	57.606	1.00 19.33	
ATOM	6222	ŏ		B 368	24.544	33.338	56.947	1.00 19.49	
ATOM	6223	N	GLU	B 369	24.174 23.692	33.331 33.136	55.779	1.00 19.63	
ATOM	6225	CA	GLU I	B 369	22.302	32.829	57.942	1.00 19.20	•
ATOM	6227	CB		B 369	21.622	32.259	57.686	1.00 18.60	
ATOM	6230	CG		B 369	22.020	30.797	58.934 59.128	1.00 18.76	
ATOM	6233	CD		B 369	21.526	30.131	60.415	1.00 19.93	
MOTA	6234	OE1	GLU 1	B 369	21.206	28.912	60.342	1.00 22.09 1.00 22.95	
ATOM	6235	OE2	GLU 1	B 369	21.502	30.774	61.499		
ATOM	6236	С	GLU I	B 369	21.643	34.059	57.145	1.00 21.86 · 1.00 17.93	•
MOTA	,6237	0	GLU I	B 369	20.951	33.977	56.144	1.00 17.93	
ATOM	6238	N	TYR I	370	21.922	35.202	57.750	1.00 17.73	
MOTA	6240	CA	TYR I	3 370	21.345	36.470	57.730	1.00 17.37	
MOTA	6242	CB	TYR I	370	21.750	37.623	58.220	1.00 18.25	
ATOM	6245	CG		3 370	20.713	37.978	59.225	1.00 18.25	•
ATOM	6246	CD1		370	20.874	37.641	60.557	1.00 20.22	
ATOM	6248		TYR I		19.902	37.958	61.496	1.00 20.22	
ATOM	6250	CZ		3 370	18.759	38.609	61.082	1.00 21.88	
ATOM	6251	ОН		3 370	17.798	38.912	61.996	1.00 24.56	
ATOM	6253				18.592	38.960	59.766	1.00 20.01	•
ATOM	6255		TYR E		19.568	38.636	58.849	1.00 18.17	
ATOM	6257	C	TYR F		21.783	36.826	55.894	1.00 18.62	
MOTA MOTA	6258	0	TYR E	3 370	21.012	37.330	55.095	1.00 18.31	
TON	6259	N	ALA E	3 371	23.059	36.586	55.625	1.00 19.41	

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MOTA	6261	CA	ALA				3.651	36.869	54.332	1.00		(
ATOM	6263	CB	ALA	В	371	2	5.101	36.520	54.355	1.00	20.11		Z
MOTA	6267	С	ALA	В	371	2	2.942	36.048	53.280	1.00	20.15	(2
MOTA	6268	0	ALA	В	371	2	2.403	36.600	52.334	1.00	20.44	(2
ATOM	6269	N	LEU	В	372	2	2.926	34.733	53.464	1.00	20.08		И
ATOM	6271	CA	LEU		372	2	2.245	33.855	52.542	1.00	20.52	(С
ATOM	6273	CB	LEU				2.332	32.416	53.037	1.00		(С
ATOM	6276	CG	LEU				3.674	31.705	52.814		20.48		C
ATOM	6278		LEU				3.645	30.402	53.579		22.12		Ċ
			LEU				3.996	31.406	51.368		19.23		c
ATOM	6282		LEU				20.771	34.266	52.285		21.35		č
ATOM	6286	C					20.262	34.155	51.152		21.29		ŏ
ATOM	6287	0	·LEU					34.757	53.322		21.78		N
ATOM	6288	N	LEU				20.091						C
ATOM	6290	CA	LEU				8.669	35.090	53.218		21.88		~
MOTA	6292	CB	LEU				8.099	35.318	54.605		22.34	,	C
MOTA	6295	CG	LEU				.6.631	35.052	54.870		24.27		C C
MOTA	6297		LEU				16.240	33.634	54.489		25.08		C
MOTA	6301		LEU				L6.434	35.258	56.348		26.33		C
MOTA	6305	C	LEU				L8.492	36.348	52.400		21.53		C
ATOM	6306	0	LEU	В	373		L7.525	36.513	51.691		21.68		0
ATOM	6307	N	ILE	В	374		L9.451	37.244	52.506		21.20		N
ATOM	6309	CA	ILE	В	374		L9.438	38.454	51.717	1.00	21.25		С
ATOM	6311	CB	ILE	В	374		20.474	39.439	52.290	1.00	21.83		С
ATOM	6313	CG1				:	19.942	40.033	53.609	1.00	22.17		С
ATOM	6316	CD1				:	21.057	40.530	54.545	1.00	23.01		С
ATOM	6320	CG2					20.798	40.532	51.287		22.04		С
ATOM	6324	C	ILE				19.701	38.147	50.244		20.32		С
ATOM	6325	ŏ	ILE				19.026	38.676	49.384		20.43		0
ATOM	6326	N	ALA				20.668	37.287	49.962		19.75		N
ATOM	6328	CA	ALA				20.935	36.828	48.599		19.72		Ĉ
	6330	CB			375		22.103	35.907	48.605		19.65		Č
MOTA							19.717	36.114	47.975		20.06		Č
ATOM	6334	C			375		19.323	36.387	46.843		19.99		ŏ
MOTA	6335	0			375						20.10		N
MOTA	6336	N			376		19.106	35.208	48.731				C
ATOM	6338	CA			376		17.867	34.578	48.295		19.73		
MOTA	6340	CB			376		17.372	33.606	49.367		19.55		С
ATOM	6342		ILE				18.335	32.421	49.481		20.36		C
ATOM	6345		ILE				18.102	31.493	50.697		20.84		C
ATOM	6349		ILE				15.972	33.126	49.009		18.87		C
MOTA	6353	С			376		16.794	35.625	48.008		19.34		C
ATOM	6354	0			376		16.097	35.560	47.002		19.00		0
MOTA	6355	N			377		16.669	36.585	48.911		19.36		N
MOTA	6357	CA			377		15.673	37.626	48.774		19.72		С
MOTA	6359	CB	ASN	В	377		15.687	38.548	49.985	1.00	19.90		С
ATOM	6362	CG	ASN	В	377		14.531	39.515	49.975		20.18		С
MOTA	6363	OD1	ASN	В	377		14.601	40.538	49.327		21.54		0
MOTA	6364	ND2	ASN	В	377		13.454	39.185	50.682	1.00	19.64		N
MOTA	6367	С			377		15.876	38.451	47.501	1.00	19.83		С
MOTA	6368	0			377		14.899	38.825	46.841	1.00	19.63	•	0
ATOM	6369	N			378		17.133	38.721	47.138		19.53		N
ATOM	6371	CA			378		17.402	39.535	45.947		19.39		C
MOTA	6373	СВ			378		18.892	39.895	45.864		19.13		Č
ATOM	6375		ILE				19.253	40.988	46.873		18.64		č
ATOM	6378		ILE				20.756	41.087	47.216		18.30		CCC
ATOM	6382		: ILE				19.211	40.382	44.502		20.08		č
							16.946	38.761	44.702		19.44		č
MOTA	6386	C			378								Ö
MOTA	6387	0			378		16.234	39.281	43.843		19.04		
ATOM	6388	N			379		17.362	37.500	44.636	1.00	20.13		N
ATOM	6390	CA			379		17.057	36.605	43.510		20.55	•	C
MOTA	6392	CB			379		18.160		43.372		19.19		С
ATOM	6395	CG	PHE	В	379		19.480	36.135	43.009	1.00	18.93		С
													

ATOM	6396		PHE B			20.620	35.781	43.693	1.00 19.79
ATOM	6398	CE1		379		21.850	36.338	43.339	1.00 19.77
ATOM	6400	CZ	PHE B	379		21.926	37.253	42.267	1.00 18.12
ATOM	6402	CE2		379		20.803	37.598	41.595	1.00 16.98
ATOM	6404	CD2				19.593	37.055	41.963	1.00 19.16
ATOM	6406	С	PHE B			15.633	35.985	43.578	1.00 21.45
ATOM	6407	0	PHE B	379		15.442	34.813	43.424	1.00 21.76
ATOM	6408	N	SER B	380		14.638	36.820	43.771	1.00 22.84
ATOM	6410	CA	SER B	380		13.261	36.399	43.772	1.00 23.88
ATOM	6412	CB	SER B		•	12.444	37.291	44.720	1.00 23.56
ATOM	6415	OG	SER B	380		12.812	37.045	46.042	1.00 23.12
ATOM	6417	C	SER B	380		12.754	36.575	42.363	1.00 24.73
ATOM	6418	0		380		12.582	37.697 _.		1.00 25.21
ATOM	6419	N		381		12.464	35.478	41.684	1.00 26.26
ATOM	6421	CA		381		12.124	35.551	40.246	1.00 26.69
ATOM	6423	CB		381		12.230	34.178	39.572	1.00 26.50
ATOM ATOM	6427 6428	C		381		10.758	36.168	39.990	1.00 26.86
ATOM	6429	0	ALA B			10.514	36.644	38.869	1.00 27.16
ATOM	6431	N CA		382		9.898	36.202		1.00 26.82
ATOM	6433	CB	ASP B ASP B	382		8.498	36.644	40.851	1.00 26.90
ATOM	6436	CG	ASP B			7.628	35.804	41.720	1.00 27.49
ATOM	6437	OD1		382		7.814	36.137	43.155	1.00 30.39
ATOM	6438	OD2		302		8.963	36.427	43.548	1.00 32.42
ATOM	6439	C		382		6.874	36.168	43.958	1.00 35.98
ATOM	6440	ŏ	ASP B			8.214 7.088	38.092	41.223	1.00 26.15
ATOM	6441	N	ARG B			9.244	38.453	41.531	1.00 25.45
ATOM	6443	CA		383		9.036	38.923	41.215	1.00 25.85
ATOM	6445	СВ	ARG B			10.356	40.342 41.064	41.392 41.574	1.00 25.29
ATOM	6448	CG	ARG B	383		11.181	40.580		1.00 25.32
ATOM	6451	CD	ARG B	383		10.514	40.697	42.713 44.041	1.00 24.29
ATOM	6454	NE		383		11.504	40.573	45.118	1.00 23.33 1.00 22.46
ATOM	6456	CZ	ARG B	383		11.225	40.635	46.406	1.00 22.46
MOTA	6457	NH1	ARG B	383		9.988	40.849	46.836	1.00 20.26
ATOM	6460	NH2	ARG B	383		12.198	40.476	47.272	1.00 22.17
ATOM	6463	С	ARG B	383		8.349	40.918	40.181	1.00 24.76
ATOM	6464	0	ARG B	383		8.384	40.356	39.115	1.00 25.12
ATOM	6465	N	PRO B	384		7.704	42.048	40.343	1.00 24.53
ATOM	6466	CA	PRO B	384		7.124	42.734	39.196	1.00 24.04
MOTA	6468	CB	PRO B	384		6.475	43.975	39.831	1.00 24.07
ATOM	6471	CG	PRO B	384		6.155	43.540	41.218	1.00 24.47
ATOM	6474	CD	PRO B	384		7.386	42.734	41.609	1.00 24.83
ATOM ATOM	6477	C	PRO B	384		8.165	43.135	38.164	1.00 23.45
ATOM	6478 6479	0		384		9.263	43.545	38.519	1.00 23.34
ATOM	6481	N	ASN B	385		7.769	43.018	36.902	1.00 23.00
ATOM	6483	CA	ASN B			8.504	43.474	35.720	1.00 22.84
ATOM	6486	CB CG		385 385		8.692	45.002	35.670	1.00 23.07
ATOM	6487					7.495	45.783	36.186	1.00 23.82
ATOM	6488			385 385		7.558	46.358	37.253	1.00 27.50
ATOM	6491	C		385		6.425	45.831	35.424	1.00 24.98
ATOM	6492	õ	ASN B			9.842 10.709	42.767	35.469	1.00 22.54
ATOM	6493	N	VAL B			10.709	43.305	34.761	1.00 22.77
ATOM .	6495	CA		386		11.217	41.560 40.796	36.003	1.00 21.82
ATOM	6497	CB		386		11.578	39.773	35.662	1.00 21.30
ATOM	6499		VAL B	386		12.626	39.773	36.744	1.00 21.47
ATOM	6503	CG2		386		12.020	40.509	36.233	1.00 20.95
ATOM	6507	C		386		10.979	40.156	37.997 34.287	1.00 21.14 1.00 20.86
MOTA	6508	Ō		386		9.952	39.549	34.287	1.00 20.86
ATOM	6509	N	GLN B			11.918	40.338	33.381	1.00 21.19
ATOM	6511	CA	GLN B			11.739	39.932	32.010	1.00 20.10
			-						

ATOM	6513	CB	GLN	В	387	12.281	41.018	31.111	1.00 19.47	С
ATOM	6516	CG	GLN		387	11.517	42.299	31.223	1.00 19.97	C
ATOM	6519	CD	GLN		387	12.162	43.357	30.380	1.00 19.97	
ATOM	6520	OE1	GLN		387	12.343	43.165	29.181		C
ATOM	6521	NE2	GLN		387	12.537	44.467		1.00 22.44	0
								30.995	1.00 22.01	N
ATOM	6524	С	GLN		387	12.436		31.725	1.00 18.93	С
ATOM	6525	0	GLN		387	12.212	38.015	30.699	1.00 19.67	0
MOTA	6526	N	GLU		388	13.279		32.633	1.00 18.08	N
ATOM	6528	CA	GLU		388	13.932		32.503	1.00 17.71	C
MOTA	6530	CB	GLU		388	15.354	37.131	32.026	1.00 17.81	С
ATOM	6533	CG	GLU	В	388	15.468	37.453	30.550	1.00 17.82	С
MOTA	6536	CD	GLU		388	16.918	37.440	30.101	1.00 18.15	C
ATOM	6537	OE1	GLU	В	388	17.571		30.302	1.00 17.11	0
ATOM	6538	OE2	GLU	В	388	17.405	36.380	29.585	1.00 15.67	0
MOTA	6539	С	GLU	В	388	13.931		33.876	1.00 17.82	C
MOTA	6540	0	GLU		388	14.963		34.494	1.00 17.76	ō
ATOM	6541	N	PRO		389	12.768		34.374	1.00 18.13	N
ATOM	6542	CA	PRO		389	12.679		35.720	1.00 18.15	Ĉ
ATOM	6544	CB	PRO		389	11.201		35.919	1.00 17.76	č
MOTA	6547	CG	PRO		389	10.546		34.664	1.00 17.70	, c
MOTA	6550	CD	PRO		389	11.463		33.704	1.00 17.00	C
ATOM	6553	C			389	13.468		35.840	1.00 18.33	
ATOM	6554	Ö	PRO		389	14.147			1.00 19.05	C
ATOM	6555							36.848		0
ATOM	6557	N	GLY		390	13.399		34.835	1.00 19.58	И С
		CA			390	14.282		34.722	1.00 19.86	•
MOTA	6560	C	GLY		390	15.729		35.110	1.00 20.83	C
ATOM	6561	0			390	16.320		35.846	1.00 22.05	0
ATOM	6562	N			391	16.339		34.636	1.00 21.12	N
ATOM	6564	CA			391	17.744		34.983	1.00 21.55	С
MOTA	6566	CB			391	18.313		34.121	1.00 21.64	С
MOTA	6569	CG			391	18.149		32.611	1.00 22.19	C
MOTA	6572	CD			391	19.056		32.031	1.00 22.52	C
ATOM	6575	NE			391	20.455	33.858	32.107	1.00 23.38	N
ATOM	6577	CZ			391	21.458	33.104	31.677	1.00 23.56	C
ATOM	6578	NH1	ARG	В	391	21.215	31.909	31.160	1.00 24.93	N
ATOM	6581	NH2	ARG	В	391	22.705	33.537	31.757	1.00 22.82	N
ATOM	6584	С	ARG	В	391	17.912	33.933	36.469	1.00 22.06	С
MOTA	6585	0	ARG	В	391	18.965	33.784	37.055	1.00 22.01	0
ATOM	6586	N	VAL	В	392	16.865	34.470	37.060	1.00 23.06	N
MOTA	6588	CA	VAL	В	392	16.912	34.882	38.449	1.00 23.96	C
ATOM	6590	CB	VAL	В	392	15.765	35.907	38.779	1.00 23.94	Ċ
ATOM	6592	CG1	VAL			15.793		40.243	1.00 24.94	Č
ATOM	6596		VAL			15.894		37.933	1.00 22.66	č
ATOM	6600	С			392	16.838		39.309	1.00 24.69	č
ATOM	6601	Ó			392	17.721		40.123		ő
ATOM	6602	N			393	15.803		39.092	1.00 25.88	N
ATOM	6604	CA			393	15.709		39.730	1.00 27.13	C
ATOM	6606	CB			393	14.635		39.068	1.00 27.13	c
ATOM	6609	CG			393	14.022		39.964	1.00 27.48	
MOTA	6612	CD			393	12.669		39.408	1.00 31.61	C
ATOM	6613		GLU							C
ATOM	6614		GLU			11.641 12.622		40.026 38.331	1.00 42.36	0
	6615	C			393	17.008			1.00 42.52	0
								39.738	1.00 26.81	C
ATOM	6616	O N			393	17.300		40.715	1.00 27.38	0
ATOM	6617	N			394	17.769		38.652	1.00 26.35	N
ATOM	6619	CA			394	18.997		38.526	1.00 25.69	С
MOTA	6621	CB			394	19.486		37.113	1.00 25.51	C
ATOM	6625	С			394	20.073		39.462	1.00 25.37	С
ATOM	6626	0			394	20.877		40.026	1.00 25.18	0
ATOM	6627	N			395	20.112		39.607	1.00 24.61	N
ATOM	6629	CA	LEU	В	395	20.986	32.361	40.601	1.00 24.14	С
							······································			

ATOM	6631	CB	LEU	В	395		21.169	33.848	40.305	1.00 23.88		С
ATOM	6634	CG	LEU				21.908	34.145	39.009	1.00 24.05		č
ATOM	6636		LEU		395		21.928	35.653	38.796	1.00 25.55		<u> </u>
												C
ATOM	6640		LEU				23.326	33.613	39.026	1.00 23.40		С
ATOM	6644	С	LEU				20.493	32.130	42.061	1.00 23.52		; C
ATOM ·	6645	0	LEU		395		21.317	32.002	42.968	1.00 23.09		0
ATOM	6646	N	GLN	В	396	•	19.180	32.047	42.283	1.00 22.77		N
MOTA	6648	CA	GLN		396		18.659	31.911	43.649	1.00 22.84		C
ATOM	6650	CB	GLN		396		17.137	32.134	43.685	1.00 22.46		č
ATOM	6653	CG	GLN		396		16.597	32.351	45.121	1.00 21.86		Č
												Č
ATOM	6656	CD	GLN		396		15.093	32.230	45.224	1.00 22.07		C
MOTA	6657		GLN		396		14.539	31.210	44.849	1.00 25.24		0
MOTA	6658	NE2					14.430	33.254	45.748	1.00 19.98		N
ATOM	6661	С	GLN	В	396		18.961	30.539	44.271	1.00 23.28	•	С
ATOM	6662	0	GLN	В	396		19.360	30.409	45.433	1.00 22.64		0
ATOM	6663	N	GLN				18.752	29.511	43.465	1.00 24.24		N
ATOM	6665	CA	GLN		397		18.766	28.124	43.918	1.00 24.67		Ĉ
			GLN									
MOTA	6667	CB.					18.568	27.206	42.715	1.00 25.50		C
ATOM	6670	ĊĠ	GLN		397		18.448	25.747	43.063	1.00 28.77	•	C
MOTA	6673	CD	GLN				17.262	25.164	42.382	1.00 33.24		.C
MOTA	6674	OE1	GLN	В	397		17.224	25.139	41.143	1.00 36.36		. 0
MOTA	6675	NE2	GLN	В	397		16.238	24.763	43.166	1.00 36.14		N
MOTA	6678	С	GLN				20.023	27.708	44.690	1.00 23.47		C
ATOM	6679	ō			397		19.885	27.115	45.740	1.00 23.28		ŏ
ATOM	6680	N			398		21.232	27.960	44.178	1.00 22.21		N
	6681				398							
ATOM		CA					22,429	27.606	44.954	1.00 22.07		C
ATOM	6683	CB			398		23.595	28.111	44.067	1.00 21.81		С
ATOM	6686	CG			398		23.038	28.253	42.719	1.00 20.81		C
ATOM	6689	CD	PRO	В	398		21.588	28.535	42.866	1.00 21.52	•	С
ATOM	6692	C.	PRO	В	398		22.450	28.206	46.397	1.00 21.66		С
ATOM	6693	0	PRO	В	398		22.887	27.547	47.341	1.00 21.24		. 0
ATOM	.6694	N			399		21.944	29.421	46.554	1.00 21.10		N
ATOM	6696	CA			399		21.896	30.073	47.868	1.00 20.92		C
												<u> </u>
ATOM	6698	CB			399		21.568	31.574	47.702	1.00 21.19		C
ATOM	6701	CG			399		22.698	32.361	47.027	1.00 20.24		C
ATOM	6702	CD1			399		22.592	32.808	45.725	1.00 18.82		С
ATOM	6704	CE1	TYR	В	399		23.608	33.500	45.132	1.00 20.34		С
ATOM	6706	CZ	TYR	В	399		24.768	33.746	45.842	1.00 20.91		С
MOTA	6707	OH	TYR	В	399		25.843	34.443	45.306	1.00 21.63		0
ATOM	6709	CE2	TYR	В	399		24.886	33.298	47.127	1.00 21.36		C
ATOM	6711	CD2			399 '		23.863	32.624	47.710	1.00 20.46		Ċ.
ATOM	6713	Č			399		20.898	29.419	48.815	1.00 20.41		č
ATOM	6714	ŏ							50.016			~
					399		21.106	29.374		1.00 20.38		0
MOTA	6715	N			400		19.798	28.940	48.258	1.00 20.03		N
ATOM	6717	CA			400		18.800	28.185	49.011	1.00 19.24		С
MOTA	6719	CB			400		17.455	28.000	48.185	1.00 18.97		C
MOTA	6721	CG1	VAL	В	400		16.494	27.023	48.871	1.00 17.82		С
MOTA	6725	CG2	VAL	В	400		.16.786	29.357	47.918	1.00 17.65		С
ATOM	6729	С	VAL	В	400		19.392	26.843	49.403	1.00 19.00		Ċ
MOTA	6730	0			400		19.239	26.442	50.526	1.00 19.25		ő
ATOM	6731	N			401		20.066	26.165	48.482	1.00 18.97		· N
ATOM	6733	CA			401		20.715	24.902	48.779	1.00 19.97		C.
MOTA	6735	CB			401		21.390	24.353	47.523	1.00 20.59		C
MOTA	6738	CG			401		20.569	23.320	46.786	1.00 25.37		C
ATOM	6741	CD			401		20.983	23.073	45.329	1.00 32.52		С
MOTA	6742	OE1			401		20.167	22.424	44.643	1.00 37.24		0
MOTA	6743	OE2			401		22.083	23.500	44.846	1.00 37.72		. 0
ATOM	6744	С			401		21.771	25.081	49.890	1.00 19.60		Č
ATOM	6745	ō			401		21.978	24.222	50.745	1.00 18.58		ő
ATOM	6746	N			402		22.438	26.227	49.833	1.00 19.35		
		CA										N
MOTA	6748	CM	WTW	B	402		23.497	26.565	50.741	1.00 18.74	t	· C

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6801 6803 6804 6805 6807 6809 6812 6813 6815 6817 6820 6822 6824 6828 6830 6834 6838 6839 6842 6844 6847	CD2 CONCABGD1 CD2 CONCABGCD1 CD2 CONCABGCCCC CONCABG1 CCCCC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ALA ALEUUUUUUUUUUUUUUUUU UU UU UU UU UU UU UU	88888888888888888888888888888888888888	40223333333333444044404404404404404404404404	24.162 22.940 23.481 21.877 21.169 20.047 19.304 18.281 20.608 20.771 19.502 18.981 17.674 20.645 21.765 22.900 23.236 24.165 24.222 24.870 26.241 26.859 26.751 24.771 24.141 23.358 24.165 24.771 24.141 23.952 24.141 23.952 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.141 23.953 24.1590 24.1741 23.953 24.1741 23.953 24.1741 24.1741 23.953 24.1741 23.953 24.1741 24.1741 23.953 24.1741 24.1741 23.953 24.1741 24.1741 23.953 24.1741 24.1741 23.953 24.1741 24.1741 23.953 24.1741 24.1741 23.953 24.1741 24.1741 23.953 24.1741 24.1741 24.1741 25.1741 26.2741 27.1741 2	30.234 26.361 26.063 25.561 24.242 23.431 22.043 22.023 21.505 23.512 23.151	50.273 52.143 52.159 53.102 53.259 53.394 53.668 55.258 54.101 55.258 53.668 52.7991 53.668 52.7991 53.568 53.668 53.568 53.568 53.568 53.568 53.568 53.57 53.588 53.58	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	19.13 18.23 17.98 17.57 17.83 17.84 16.31 15.60 15.33 18.18 16.92 19.76 19.91 21.46 21.66 19.98 20.53 21.05 21.36 21.36 21.37 21.34 21.34 21.35 21.35 21.35 21.35 21.35 21.35 21.35		000200000000000000000000000000000000000
ATOM	6828 6830	CA CB	THR THR	B B	407 407	21.106	24.979	58.893	1.00	23.33		С
	6832	OG1	THR	В	407	19.223	24.720	57.311	1.00	21.25		0
ATOM	6838		THR	В	407			58.264 59.395				C
			THR	В	407	20.968	23.288	60.576	1.00	23.72		
				_					1.00	25.82		N
MOTA	6847	CG	ARG	В	408 •							
ATOM	6850	CD	ARG	В	408	20.854	18.649	55.855	1.00	36.14		C
MOTA MOTA	6853 6855	NE CZ	ARG ARG			19.859	17.586	55.832	1.00	40.97		N
ATOM	6856		ARG			18.659 18.292	17.664 18.752	55.248 54.556		44.02		C
ATOM	6859		ARG	В	408	17.831	16.732	55.341		43.40 45.66		N
MOTA	6862	С	ARG :	В	408	22.499	20.970	59.680		27.90		C.
ATOM	6863	0	ARG :			22.448	20.213	60.656	1.00	27.33		0
ATOM ATOM	6864 6866	N CA	ILE :			23.600	21.602	59.303	1.00	28.65		N
ATOM	6868	CB	ILE :			24.874 26.031	21.315	59.925		29.43		С
ATOM	6870		ILE :			26.238	21.700 20.585	58.981 57.942		29.63 30.42		C
ATOM	6873	CD1	ILE 1	В	409	27.234	20.919	56.829		31.02		C
ATOM	_. 6877	CG2	ILE :	В	409	27.305	21.931	59.766		29.94		C
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ATOM ATOM ATOM ATOM ATOM	6881 6882 6883 6885 6887	C O N CA CB	ILE LYS LYS	B B B	409 409 410 410		24.974 25.365 24.610 24.637 24.243	21.995 21.354 23.279 24.068 25.526	61.286 62.257 61.339 62.575	1.00 1.00 1.00	29.71 29.24 30.37 30.83			C 0 N C
ATOM.	6890	CG			410		24.126	26.442	62.291 63.533		31.05			C
ATOM	6893	CD			410		23.712	27.862	63.142		31.09			C
ATOM	6896	CE	LYS	B	410		23.132	28.662	64.308		31.05			C
ATOM	6899	NZ	LYS	В	410		23.280	30.140	64.067		30.78			C
ATOM	6903	C			410		23.699	23.487	63.624		30.57 31.13			N
ATOM	6904	0			410		24.025	23.455	64.812		31.13	•		, C
ATOM	6905	N	ARG				22.530	23.037	63.175		31.60			0
ATOM	6907	CA	ARG				21.484	22.548	64.071		32.04			N
ATOM	6909	CB	ARG				20.398	23.626	64.262		32.46			C
MOTA	6912	CG	ARG				20.909	24.977	64.766		35.17			C
ATOM	6915	CD	ARG				21.177	25.100	66.289		39.41			C
ATOM	6918	NE	ARG				20.672	26.400	66.733		44.08	:		И.
ATOM .	6920	CZ	ARG				19.422	26.642	67.180		47.09			C
MOTA	6921	NH1	ARG	В	411		18.531	25.648	67.319		47.14	•		N
ATOM	6924	NH2	ARG	В	411		19.065	27.896	67.511		47.17			. N
ATOM	6927	С	ARG				20.855	21.246	63.556		31.31		•	C
MOTA	6928	0	ARG	В	411		19.684	21.237	63.219		30.81			ŏ
MOTA	6929	N	PRO	В	412	•	21.608	20.143	63.547		31.11			N
ATOM	6930	CA	PRO				21.108	18.848	63.040		31.04		•	C
ATOM	6932	CB	PRO	В	412		22.198	17.853	63.471		31.06			Č
MOTA	6935	CG	PRO	В	412		23.020	18.585	64.489		31.09			č
ATOM	6938	CĐ	PRO				22.979	20.022	64.073		31.04			č
ATOM	6941	С	PRO				19.764	18.424	63.622		30.98			č
ATOM	6942	0	PRO				18.990	17.774	62.924		30.55			ō
ATOM	6943	И.	GLN				19.487	18.838	64.857		31.37			N
ATOM	6945	CA	GLN				18.318	18.385	65.608		31:76			C
ATOM	6947	CB	GLN				18.699	18.182	67.085	1.00	31.90			C
ATOM	6950	CG	GLN				19.976	17.345	67.302	1.00	32.92			С
MOTA	6953	CD	GLN	В	413		19.728	15.837	67.190		34.63			C.
ATOM	6954		GLN				19.739	15.251	66.089		33.84		•	0
ATOM .	6955		GLN				19.501	15.205	68.339		36.01			N
ATOM ATOM	6958	C	GLN				17.098	19.310	65.515		31.52			C
ATOM	6959 6960	O N	GLN ASP				16.098	19.054	66.177		31.68			0
ATOM	6962	N CA	ASP				17.171	20.364	64.706		31.28			N
ATOM	6964	CB	ASP				16.031	21.264	64.510		31.37			С
ATOM	6967	CG	ASP				16.344	22.671	65.012		31.36	•		C
ATOM	6968		ASP		414		15.105 14.044	23.531	65.122		33.05			С
ATOM	6969		ASP				15.095	23.162 24.602	64.562		35.59			0
ATOM	6970	C	ASP				15.601	21.326	65.757 63.049		35.48 31.09			0
ATOM	6971	Ō	ASP				15.951	22.256	62.313		31.09			C
ATOM	6972	N	GLN				14.804	20.342	62.651		30.85			0
ATOM	6974	CA	GLN				14.387	20.190	61.256		30.59			N
ATOM	6976	CB	GLN				13.764	18.790	61.032		31.09			C
ATOM	6979	CG	GLN				14.780	17.634	60.807		33.66			C
ATOM	6982	CD	GLN	В	415		15.899	17.986	59.796		38.47			. C
ATOM	6983	OE1	GLN	В	415		17.104	17.943	60.134		41.48			Ö
	6984		GLN	В	415		15.504	18.353	58.566		40.87			N
MOTA	6987	C	GLN				13.440	21.313	60.775		29.62			C
ATOM	6988	0	GLN				13.273	21.495	59.551		29.23			ŏ
ATOM	6989	N	LEU				12.854	22.063	61.724		28.51			N
ATOM	6991	CA	LEU	В	416		11.926	23.172	61.412		27.87			C
ATOM	6993	CB	LEU				10.832	23.271	62.475		27.63		-	Č
	6996	CG	LEU	В	416		9.753	22.197	62.482		27.17			·C
ATOM	6998	CDI	LEU	В	416		8.690	22.614	63.488		26.60			C
ATOM	7002	CDZ	LEU	B	416		9.154	21.951	61.090	1.00	26.52			· C

T MON	7000	_		_							•
MOTA	7006	С	LEU	В	416	12.557	24.560	61.301	1.00 27	- 40	С
ATOM	7007	0	LEU	В	416	11.872	25.525	60.974	1.00 27		
ATOM	7008	N	ARG		417	13.847					0
							24.678	61.574	1.00 27	.00	N
MOTA	7010	CA	ARG		417	14.467	26.003	61.585	1.00 26	.48	С
ATOM	7012	CB	ARG	В	417	15.822	25.986	62.321	1.00 26		Č
ATOM	7015	CG	ARG	R	417	16.894	26.860	61.699			Č
									1.00 27		С
ATOM	7018	CD	ARG			18.315	26.647	62.233	1.00 28	.01	С
ATOM	7021	NE	ARG	В	417	18.987	27.942	62.348	1.00 26		N
ATOM	7023	CZ	ARG			18.760	28.798	63.305	1.00 23		14
ATOM	7024		ARG								С
						17.913	28.490	64.272	1.00 23	. 64	N
ATOM	7027	NH2	ARG	В	417	19.387	29.956	63.287	1.00 23	. 29	N
ATOM	7030	С	ARG	В	417	14.591	26.515	60.159	1.00 25		
ATOM	7031	ō									C
			ARG			14.311	27.673		1.00 25		0
ATOM	7032	N	PHE	В	418	14.991	25.657	59.230	1.00 23	.86	N
ATOM	7034	CA	PHE	В	418	15.044	26.080	57.839	1.00 23		Ċ
ATOM	7036	CB	PHE			15.593					
							24.980	56.956	1.00 23		С
ATOM	7039	CG	PHE			15.727	25.371	55.529	1.00 24	.28	C
ATOM	7040	CD1	PHE	₿	418	16.458	26.480	55.180	1.00 25		Č
ATOM	7042		PHE			16.607	26.847	53.871			0
ATOM	7044								1.00 28		С
		CZ	PHE	В	418	16.022		.52.868	1.00 29		С
MOTA	7046	CE2	PHE	В	418	15.286	24.965	53.207	1.00 28	. 48	С
MOTA	7048	CD2	PHE	В	418	15.137	24.618	54.538	1.00 26		õ
ATOM	7050	C	PHE			13.697					С
							26.561	57.282	1.00 23		С
MOTA	7051	0	PHE			13.657	27.627	56.697	1.00 22	.33	0
MOTA	7052	N	PRO	В	419	12.612	25.783	57.429	1.00 22		N
ATOM	7053	CA	PRO			11.284	26.233	57.016			
									1.00 22		С
MOTA	7055	CB	PRO			10.349	25.107	57.508	1.00 22	. 95	С
ATOM	7058	CG	PRO	В	419	11.155	23.916	57.474	1.00 22	. 86	C
ATOM	7061	CD	PRO			12.530	24.400	57.931	1.00 23		0
ATOM	7064										C-
		С	PRO			10.900	27.544	57.635	1.00 23		C
ATOM	7065	0	PRO	В	419	10.437	28.399	56.875	1.00 22	. 94	0
ATOM	7066	N	ARG	В	420	11.114	27.717	58.942	1.00 23		
ATOM	7068	CA	ARG			10.786					N
							28.985	59.603	1.00 24		C
MOTA	7070	CB	ARG			11.108	28.972	61.081	1.00 24	.28	C
ATOM	7073	CG	ARG	В	420	10.080	28.246	61.896	1.00 26	85	Ċ
ATOM	7076	CD	ARG	В	420	10.218	28.401	63.384			
ATOM	7079	NE							1.00 30		С
			ARG		420	9.654	27.233	64.062	1.00 34	.79	N
MOTA	7081	CZ	ARG	В	420	10.346	26.168	64.516	1.00 38	.50	С
ATOM	7082	NH1	ARG	В	420	11.681	26.086	64.397	1.00 39		
ATOM	7085		ARG			9.682					Ŋ
							25.163	65.106	1.00 39		N
ATOM	7088	С	ARG			11.537	30.103	58.952	1.00 24	. 82	C
MOTA	7089	0	ARG	В	420	. 10.989	31.189	58.807	1.00 26		. 0
MOTA	7090	N	MET			12.776	29.845	58.530			
ATOM	7092	CA	MET						1.00 24		N
					421	13.553	30.868	57.843	1.00 25	.26	С
ATOM	7094	CB	MET			14.970	30.397	57.577	1.00 25	.40	С
ATOM	7097	CG	MET	В	421	15.826	30.434	58.849	1.00 27	21	
MOTA	7100	SD	MET			17.544					C
							30.165	58.566	1.00 27		S
ATOM	7101	CE	MET			17.757	31.547	57.546	1.00 30	.33	C
MOTA	7105	С	MET	В	421	12.898	31.328	56.559	1.00 25	. 31	Ċ
MOTA	7106	0	MET			12.606	32.520	56.412	1.00 24		0
MOTA	7107	N	LEU								0
						12.655	30.387	55.642	1.00 25		N
MOTA	7109	CA	LEU :			11.937	30.683	54.389	1.00 26	.03	С
ATOM	7111	CB	LEU :	В	422	11.675	29.424	53.544	1.00 25		č
ATOM	7114	CG	LEU			12.856					С
							28.593	53.058	1.00 26	. 90	С
MOTA	7116		LEU :			12.349	27.425	52.241	1.00 28	. 42	С
ATOM .	7120	CD2	LEU :	В	422	13.830	29.394	52.258	1.00 27		~
ATOM	7124	С	LEU			10.601	31.383		1 00 00	. 0.3	C
								54.677	1.00 25		C
ATOM	7125	0	LEU :			10.209	32.268	53.919	1.00 26		0
MOTA	7126	N	MET :			9.915	31.017	55.766	1.00 25		N
ATOM	7128	CA	MET :			8.633	31.637	56.062	1.00 25	20	
	7130	CB	MET			7.953	30.976				C
				_	123	1.933	30.310	57.263	1.00 26	. IZ	С
								······································			

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MOTA	7133	CG			423	7.525	29.546	57.077	1.00 29.14	С
ATOM	7136	SD .	MET	В	423	6.110	29.354	56.027	1.00 33.88	S
ATOM	7137	CE			423	5.398	27.865	56.718	1.00 31.87	Č
	_									
MOTA	7141	С			423	8.812	33.130	56.364	1.00 24.01	C
MOTA	7142	0	MET	В	423	7.873	33.891	56.259	1.00 24.04	0
MOTA	7143	N	LYS			9.993	33.557	56.780	1.00 22.48	
										N
MOTA	7145	CA	LYS		424	10.208	34.982	56.972	1.00 21.56	
MOTA	7147	CB	LYS	В	424	11.478	35.290	57.792	1.00 21.39	C
ATOM	7150	CG	LYS			11.493	34.587	59.158	1.00 22.03	Č
										Č
ATOM	7153	CD	LYS		424	10.557	35.305	60.148	1.00 25.08	C
ATOM	7156	CE	·LYS	В	424	10.012	34.408	61.295	1.00 25.53	С
MOTA	7159	NZ	LYS	R	424	9.429	33.142	60.779	1.00 26.17	N
ATOM	7163	С	LYS		424	10.198	35.707	55.635	1.00 20.62	C
ATOM	7164	0	LYS	В	424	9.785	36.856	55.601	1.00 20.46	0
ATOM	7165	N	LEU	В	425	10.606	35.069	54.533	1.00 19.60	N
MOTA	7167	CA	LEU		425	10.422	35.708	53.223	1.00 19.55	С
MOTA	7169	CB	LEU	В	425	11.035	34.913	52.090	1.00 19.54	С
ATOM	7172	CG	LEU	В	425	12.505	34.601	52.232	1.00 21.54	C
ATOM ·	7174	CD1	LEU		425		33.566	51.211		Ö
						12.869		_	1.00 23.40	С
MOTA	7178	CD2	LEU	В	425	13.352	35.834	52.060	1.00 22.49	· C
ATOM	7182	С	LEU	В	425	8.938	35.944	52.908	1.00 19.31	С
	7183		LEU		425	8.581	36.844	52.167		0
MOTA		0							1.00 19.19	
MOTA	7184	N	VAL	В	426	8.067	35.120	53.458	1.00 19.66	N
ATOM	7186	CA	VAL	В	426	6.624	35.318	53.304	1.00 19.82	С
ATOM	7188	CB .	VAL		426	5.810	34.102	53.825	1.00 19.55	Č
										<u>_</u>
MOTA	7190	CG1				4.326	34.417	53.825	1.00 18.92	
MOTA	7194	CG2	VAL	В	426	6.122	32.843	52.986	1.00 19.22	С
ATOM	7198	С	VAL		426	6.207	36.568	54.050	1.00 20.19	
MOTA	7199	0			426	5.549	37.418	53.511	1.00 20.87	0
ATOM	7200	N	SER	В	427	6.624	36.694	55.296	1.00 20.79	. N
MOTA	7202	CA	SER	R	427	6.278	37.863	56.087	1.00 21.20	
MOTA	7204	CB			427	6.894	37.764	57.497	1.00 21.36	
MOTA	7207	OG	SER	В	427	6.259	36.781	58.288	1.00 22.31	0
ATOM	7209	С	SER	В	427	6.790	39.129	55.428	1.00 21.16	
MOTA	7210	0			427	6.201	40.177	55.582	1.00 20.49	
MOTA	7211	N	LEU	В	428	7.924	39.027	54.738	1.00 21.51	N
ATOM	7213	CA	LEU	В	428	8.587	40.206	54.213	1.00 21.87	C
ATOM	7215	CB	LEU		428	10.006	39.877	53.752	1.00 22.01	č
ATOM	7218	CG	LEU		428	11.072	39.857	54.846	1.00 22.00	
ATOM	7220	CD1	LEU	В	428	12.358	39.137	54.352	1.00 22.22	С
ATOM	7224	CD2	LEU	R	428	11.375	41.269	55.310	1.00 21.90	
										2
MOTA	7228	С			428	7.778	40.809	53.079	1.00 22.12	
ATOM	7229	0	LEU	В	428	7.788	42.016	52.901	1.00 21.40	0
ATOM	7230	N	ARG	В	429	7.072	39.969	52.330	1.00 23.03	
ATOM	7232	CA								
					429	6.227	40.446	51.244	1.00 24.02	
ATOM	7234	CB	ARG	В	429	5.613	39.303	50.412	1.00 24.16	С
MOTA	7237	CG	ARG	В	429	6.557	38.518	49.526	1.00 24.59	
ATOM	7240	CD			429	7.456				
							39.354	48.604	1.00 25.32	
ATOM	7243	NE			429	8.494	38.543	47.975	1.00 24.69	N
MOTA	7245	CZ	ARG	В	429	8.371	37.961	46.791	1.00 26.36	C
ATOM	7246		ARG			7.272	38.102	46.064	1.00 26.96	
MOTA	7249		ARG			9.355	37.221	46.331	1.00 27.37	
ATOM	7252	С	ARG	В	429	5.106	41.270	51.814	1.00 24.59	C
ATOM	7253	0			429	4.804	42.352	51.315	1.00 26.17	
ATOM	7254	N			430	4.444	40.774	52.838	1.00 24.58	
MOTA	7256	CA .	THR	В	430	.3.337	41.547	53.388	1.00 24.82	C
ATOM	7258	CB			430	2.507	40.728	54.397	1.00 25.23	
ATOM	7260	OG1			430					
						1.626	39.824	53.700	1.00 27.17	
MOTA	7262	CG2	THR	В	430	1.571	41.634	55.145	1.00 26.41	. C
MOTA	7266	С	THR	В	430	3.842	42.825	54.027	1.00 24.07	
ATOM	7267	0			430	3.180	43.824	53.964	1.00 24.19	
ALON	, 201	~	Ann	Б	430	3.100	30.024	33.304	1.00 24.13	0

MOTA	7268	N	LEU	В	431	5.015	42.783	54.636	1.00 23.83	17
MOTA	7270	CA	LEU	В	431	5.598	43.946	55.276	1.00 23.82	N
ATOM	7272	CB	LEU		431	6.853	43.566	56.053	1.00 23.62	C
ATOM	7275	CG	LEU		431	6.814	43.380		1.00 24.30	C
ATOM	7277		LEU		431			57.565	1.00 25.96	С
ATOM	7281		LEU			5.442	43.604	58.172	1.00 27.20	C
ATOM	7285	CDZ	LEU			7.349	42.013	57.897	1.00 28.21	С
					431	5.977	44.975	54.239	1.00 23.26	С
MOTA	7286	0	LEU		431	5.923	46.176	54.492	1.00 22.84	0
ATOM	7287	N	SER			6.373	44.498	53.069	1.00 22.92	N
MOTA	7289	CA	SER			6.604	45.391	51.952	1.00 22.82	С
ATOM	7291	CB			432	7.100	44.653	50.732	1.00 22.84	Ċ
ATOM	7294	OG	SER	В	432	7.207	45.556	49.655	1.00 23.55	ő
ATOM	7296	С	SER	В	432	5.341	46.132	51.589	1.00 22.67	C
ATOM	7297	0	SER	В	432	5.423	47.296	51.315	1.00 22.90	Ö
MOTA	7298	N	SER	В	433	4.181	45.476	51.580	1.00 22.72	
ATOM	7300	CA	SER			2.907	46.183	51.309	1.00 23.00	N
MOTA	7302	CB			433	1.705	45.224	51.154	1.00 23.00	C
ATOM	7305	OG			433	1.809	44.429	49.973		C
ATOM	7307	C	SER						1.00 27.58	0
ATOM	7307	Ö			433	2.576	47.187	52.388	1.00 21.87	C
ATOM	7309	N			433	2.144	48.289	52.103	1.00 21.06	0
ATOM	7309					2.771	46.786	53.635	1.00 21.22	N
		CA	VAL			2.437	47.642	54.749	1.00 20.81	С
ATOM	7313	CB			434	2.627	46.887	56.091	1.00 20.75	С
ATOM	7315	CGT	VAL	В		2.403	47.788	57.295	1.00 20.51	С
ATOM	7319		VAL		434	1.656	45.736	56.178	1.00 21.14	С
MOTA	7323	С			434	3.277	48.928	54.648	1.00 20.36	C
MOTA	7324	0			434	2.819	49.996	55.001	1.00 19.94	ō
MOTA	7325	N	HIS	В	435	4.489	48.824	54.130	1.00 20.35	N
MOTA	7327	CA	HIS		435	5.350	49.981	53.997	1.00 20.72	C
MOTA	7329	CB	HIS	В	435	6.791	49.571	53.668	1.00 20.92	č
ATOM	7332	CG	HIS	В	435	7.678	50.733	53.347	1.00 21.42	c
ATOM	7333	ND1	HIS			8.403	50.814	52.179	1.00 20.55	
ATOM	7335		HIS			9.084	51.948	52.173	1.00 20.33	N
ATOM	7337	NE2	HIS	B	435	8.795	52.624	53.273	1.00 21.02	C
ATOM	7339	CD2	HIS	R	435	7.912	51.889			N
ATOM	7341	C	HIS			4.831		54.022	1.00 20.83	C
ATOM	7342	Ö	HIS			4.832	50.921	52.924	1.00 20.87	С
ATOM	7343	N			436		52.144	53.085	1.00 20.81	0
ATOM	7345	CA				4.385	50.357	51.824	1.00 21.23	N
ATOM	7347		SER			3.737	51.169	50.803	1.00 21.81	С
ATOM		CB	SER			3.417	50.312	49.584	1.00 21.64	С
	7350	OG	SER			4.630	49.798	49.024	1.00 21.73	0
MOTA	7352	C	SER			2.493	51.904	51.338	1.00 22.24	C
ATOM	7353	0	SER			2.269	53.043	50.995	1.00 22.27	Ō
ATOM	7354	N	GLU			1.709	51.240	52.181	1.00 23.51	N
ATOM	7356	CA	GLU			0.548	51.827	52.856	1.00 24.49	Ċ
MOTA	7358	СВ	GLU			-0.209	50.754	53.671	1.00 24.99	č
ATOM	7361	CG	GLU			-1.228	49.931	52.862	1.00 28.62	Č
ATOM	7364	CD	GLU			-1.545	48.518	53.432	1.00 33.03	c
MOTA	7365	OE1	GLU			-1.696	47.556	52.624	1.00 35.03	
ATOM	7366		GLU			-1.657	48.345	54.671	1.00 33.87	0
MOTA	7367	С	GLU			1.006	52.968	53.771	1.00 33.87	0
MOTA	7368	ō	GLU	В	437	0.335	54.007	53.864	1 00 24 40	C
ATOM	7369	N	GLN			2.155			1.00 24.42	0
MOTA	7371	CA	GLN			2.742	52.772	54.424	1.00 24.99	N
ATOM	7373	CB	GLN	<u> </u>	130		53.772	55.314	1.00 25.30	C
ATOM	7376	CG	GLN	D	420	3.912	53.186	56.108	1.00 24.95	С
ATOM	7379					4.750	54.232	56.863	1.00 24.18	С
		CD OF1	GLN			4.012	54.826	58.049	1.00 23.98	С
ATOM	7380		GLN			4.097	54.283	59.143	1.00 24.29	0
MOTA	7381		GLN			3.295	55.930	57.843	1.00 22.11	N
ATOM	7384	C	GLN	В	438	3.207	55.039	54.582	1.00 26.53	C
ATOM	7385	0	GLN	В	438	2.925	56.139	55.064	1.00 25.78	ŏ
									· ·	

MOTA	7386	N	VAL	В	439	3	3.943	54.882	53.465	1 00	28.03				NT ·
ATOM	7388	CA	VAL												N ·
							.355	56.019	52.617	1.00	29.51				С
MOTA	7390	CB	VAL	В	439	5	3.366	55.646	51.446	1 00	29.86		•		C
ATOM	7392	CG1	VAL	ъ	420									•	
						•	5.675	55.089	51.971	1.00	30.85				C
ATOM	7396	CG2	VAL	В	439	4	.785	54.643	50.495		31.33				
ATOM ·	7400														С
		С	VAL			3	3.133	56.710	52.015	1.00	30.36				С
ATOM	7401	0	VAL	B	439	. 3	3.102	57.944	51.858		30.23				
															0
ATOM	7402	N	PHE	B	440	2	2.113	55.925	51.691	1.00	31.79				N
ATOM	7404	CA	PHE	B	440	0	.884	56.523	51.209						
											33.28	•			C
ATOM	7406	СВ	PHE	В	440	-0).177	55.481	50.799	1.00	33.50				С
ATOM	7409	CG	PHE	R	440	-1	397	56.109	50.175						~
											35.31	٠,			С
ATOM	7410	CDI	PHE	В	440	-1	357	56.572	48.848	1.00	37.12				C
ATOM	7412	CE1	PHE	R	440	-2	2.458	57.188	48.277		36.48				
															С
ATOM	7414	CZ	PHE	В	440	-3	3.613	57.377	49.041	1.00	36.71				С
ATOM	7416	CE2	PHE	В	440	_ 3	3.660	56.946	50.364		36.17				~
ATOM															C
	7418	CDZ	PHE	B	440	-2	2.551	56.322	50.927	1.00	36.31				С
ATOM	7420	С	PHE	В	440	0	.379	57.442	52.319		33.80				~
ATOM															С
	7421	0	PHE	В	440	U	.318	58.651	52.152	1.00	33.44				0
ATOM	7422	N	ALA	В	441	C	.093	56.843	53.471		35.03				
ATOM	7424														N
		CA	ALA	В	441	-0	.382	57.555	54.654°	1.00	35.88				C
ATOM	7426	CB	ALA	В	441	-0	.533	56.566	55.813		35.75				ä
ATOM	7430											•			С
		С	ALA		441	U	.485	58.754	55.097	1.00	36.81				C
ATOM	7431	0	ALA	В	441	-0	.035	59.685	55.725		37.00				0
ATOM	7432														
		N	LEU		442		.782	58.735	54.782	1.00	37.81				N
ATOM	7434	CA	LEU	В	442	2	.689	59.798	55.206	1 00	38.67				C
ATOM	7436	CB	LEU		442										C
							.139	59.354	55.124	1.00	38.52				С
MOTA	7439	CG	LEU	В	442	4	. 636	58.724	56.433	1.00	38.11				С
ATOM	7441	CD1	LEU		442										_
							.920	57.978	56.176	1.00	37.89				С
ATOM	7445	CD2	LEU	В	442	4	.839	59.754	57.535	1.00	37.08				С
ATOM	7449	С	LEU		442		.517								_
								61.082	54.411	1.00	40.14				С
ATOM	7450	0	LEU	В	442	2	.765	62.165	54.934	1.00	40.85				0
MOTA	.7451	N	ARG		443.		.090								
								60.982	53.159		41.45				N
ATOM	7453	CA	ARG	В	443	1	.875	62.178	52.332	1.00	42.28				C
ATOM	7455	CB	ARG	R	443	1	.702	61.772	50.869						~
											42.73				С
ATOM	7458	CG	ARG	В	443	2	.904	61.040	50.284	1.00	43.42				С
ATOM	7461	CD	ARG	В	443	2	.729	60.693	48.821		45.87				~
ATOM	7464	NE													С
			ARG		443		.899	61.842	47.916	T.00	47.49				N
ATOM	7466	CZ	ARG	В	443	2	.812	61.776	46.580	1.00	48.94				С
ATOM	7467	NH1	ARG	P	443		.554								
								60.622	45.960	1.00	49.43				N
MOTA	7470	NH2	ARG	В	443	2	.988	62.868	45.846	1.00	49.74				N
ATOM	7473	С	ARG	R	443		.693	63.052	52.783						
											42.62				С
ATOM	7474	0	ARG		443	0	.659	64.248	52.492	1.00	42.56				0
ATOM	7475	N	LEU	R	444	-0	.261	62.456	53.499						
											43.25				N
ATOM	7477	CA	LEU	В	444	-1	.393	63.203	54.072	1.00	43.67				С
MOTA	7479	CB	LEU	B	444	-2	.505	62.274	54.606		44.00				~
															С
ATOM	7482	CG	LEU			-2	.912	60.948	53.946	1.00	44.89				C
ATOM	7484	CD1	LEU	В	444	-3	.840	60.183	54.916		44.64		•		ă
ATOM								60.100							С
	7488	CDZ	LEU			-3	.571	61.163	52.571	1.00	45.14				С
MOTA	7492	С	LEU	В	444	-0	.964	64.072	55.244		43.57				ā
ATOM	7493														С
		0	LEU				.767	64.833	55.767	1.00	43.90				0
ATOM	7494	N	GLN	В	445	0	.279	63.930	55.687	1 00	43.43				N
ATOM	7496	CA	GLN												
							.759	64.627	56.879	T.00	43.35				C.
ATOM	. 7498	CB	GLN	В	445	1	.100	63.624	58.015	1.00	43.42				C.
MOTA	7501	CG	GLN				.707								~
								62.147	57.735		44.19				С
MOTA	7504	CD	GLN	В	445	0	.126	61.412	58.927	1.00	44.36				С
ATOM	7505	OF.1	GLN	В	445		.823	60.623	59.559						
		222	CT.1	_	445						45.11		•		0
MOTA	7506	NEZ	GLN :			-1	.155	61.646	59.220	1.00	43.92				N
ATOM	7509	С	GLN	В	445		.958	65.515	56.508		43.00				
ATOM	7510														С
		0	GLN				.807	65.809	57.352	1.00	43.42				0
MOTA	7511	N	ASP :	В	446	2	.004	65.954	55.245		42.48				N
ATOM	7513	CA	ASP :					66.859							
				~	- T T U	3	.034	.00.039	54.724	1.00	41.88				·C

ATOM 7519 ODL ASP B 4466	MOTA	7515	CB	ASP	В	446	3.150	68.157	55.583	1.00 42.24	
ATOM 7519 ODL ASP B 4466	MOTA	7518	CG	ASP	В	446	2.425	69.372	54.954	1.00 43.60	С
ATOM 7520 OD2 ASP B 446	ATOM	7519	OD1	ASP	В	446	2.283	69.440	53.705	1.00 44.77	
ATOM 7521 C ASP B 446	ATOM		OD2	ASP	В	446	1,986		55.654		
ATOM 7522 O ASF B 446 5.475 66.823 54.481 1.00 40.55 O ATOM 7523 N LYS B 447 4.443 64.834 54.599 1.00 38.43 N ATOM 7525 CA LYS B 447 5.768 63.228 55.883 1.00 37.05 C ATOM 7530 CG LYS B 447 5.768 63.228 55.883 1.00 37.04 C ATOM 7530 CG LYS B 447 6.149 63.134 58.382 1.00 36.58 C ATOM 7530 CD LYS B 447 6.149 63.134 58.382 1.00 36.58 C ATOM 7536 CE LYS B 447 6.149 63.897 59.653 1.00 35.81 C ATOM 7536 CE LYS B 447 4.944 64.489 59.59.979 1.00 36.74 N ATOM 7543 C LYS B 447 5.885 63.228 59.979 1.00 36.02 C ATOM 7544 O LYS B 447 5.885 63.284 53.334 1.00 36.02 C ATOM 7545 N LYS B 447 5.885 63.284 53.334 1.00 36.02 C ATOM 7547 CA LYS B 448 6.408 63.958 52.311 1.00 34.70 N ATOM 7547 CA LYS B 448 6.759 63.325 51.039 1.00 33.27 C ATOM 7545 N LYS B 448 6.759 63.325 51.039 1.00 33.27 C ATOM 7545 CB LYS B 448 6.569 64.320 49.883 1.00 33.27 C ATOM 7555 CG LYS B 448 5.283 66.251 49.021 1.00 34.98 C ATOM 7558 CE LYS B 448 5.283 66.251 49.021 1.00 34.98 C ATOM 7558 CE LYS B 448 5.283 66.251 49.021 1.00 34.98 C ATOM 7556 C LYS B 448 9.222 63.518 39.621 1.00 31.57 C ATOM 7566 C LYS B 448 9.225 67.183 49.621 1.00 34.97 N ATOM 7567 N LEU B 448 9.222 63.518 51.639 1.00 31.55 C ATOM 7566 C LYS B 448 9.222 63.518 51.609 1.00 34.97 N ATOM 7566 C LYS B 448 9.222 63.518 51.609 1.00 34.97 N ATOM 7566 C LYS B 448 9.222 63.518 51.609 1.00 34.97 N ATOM 7566 C LYS B 448 9.222 63.518 51.609 1.00 30.04 N ATOM 7567 N LEU B 449 9.701 59.759 9.961 1.00 34.97 N ATOM 7566 C LEU B 449 9.703 59.759 9.961 1.00 34.97 N ATOM 7567 N LEU B 449 9.703 59.759 9.961 1.00 32.762 C ATOM 7576 C LEU B 449 9.703 59.759 9.961 1.00 28.75 C ATOM 7580 CD LEU B 449 9.703 59.759 9.961 1.00 28.75 C ATOM 7580 CD LEU B 449 9.703 59.759 9.961 1.00 28.75 C ATOM 7580 CD LEU B 449 9.703 59.759 9.961 1.00 28.75 C ATOM 7580 CD LEU B 449 9.703 59.759 9.961 1.00 28.75 C ATOM 7580 CD LEU B 449 9.736 59.759 9.961 1.00 28.75 C ATOM 7580 CD LEU B 449 9.736 59.759 9.961 1.00 28.75 C ATOM 7580 CD LEU B 449 9.736 59.759 9.961 1.00 28.60 C ATOM 7580 CD LEU B 459 1.00 28.50 C ATOM 7580 CD LEU B											
ATOM 7525 N. LYS B 447											
ATOM 75.27 CB LYS B 447 5.768 63.228 55.883 1.00 37.04 CC ATOM 75.30 CC LYS B 447 5.768 63.228 55.883 1.00 37.04 CC ATOM 75.30 CD LYS B 447 6.149 63.134 58.382 1.00 36.58 CC ATOM 75.30 CC LYS B 447 6.149 63.134 58.382 1.00 36.58 CC ATOM 75.30 CE LYS B 447 6.249 63.897 59.653 1.00 35.81 CC ATOM 75.30 NZ LYS B 447 4.944 64.489 59.979 1.00 36.74 N ATOM 75.31 CD LYS B 447 5.565 62.091 53.266 1.00 36.074 N ATOM 75.34 C LYS B 447 5.565 62.091 53.266 1.00 36.06 C ATOM 75.44 O LYS B 447 5.565 62.091 53.266 1.00 36.06 C ATOM 75.45 N LYS B 448 6.769 63.284 53.334 1.00 34.70 N ATOM 75.47 CA LYS B 448 6.769 63.955 51.039 1.00 33.31 C ATOM 75.49 CB LYS B 448 6.669 64.320 49.883 1.00 33.27 C ATOM 75.55 CD LYS B 448 5.275 64.809 49.699 1.00 34.19 C ATOM 75.56 CD LYS B 448 4.235 67.183 49.621 1.00 35.27 C ATOM 75.57 CA LYS B 448 4.235 67.183 49.621 1.00 34.98 C ATOM 75.57 N LYS B 448 8.25 67.83 49.021 1.00 34.97 N ATOM 75.56 CD LYS B 448 8.25 67.83 49.021 1.00 34.97 N ATOM 75.57 N LYS B 448 8.25 67.83 51.039 1.00 33.174 C ATOM 75.56 C LYS B 448 8.25 67.83 25.114 1.00 34.97 N ATOM 75.57 N LYS B 448 8.25 67.83 25.114 1.00 34.97 N ATOM 75.56 C LYS B 448 8.25 67.83 25.114 1.00 34.97 N ATOM 75.57 N LEU B 449 9.750 61.042 1.00 31.55 C ATOM 75.57 N LEU B 449 9.750 61.042 1.00 31.55 C ATOM 75.59 C LEU B 449 9.750 61.042 1.00 31.55 C ATOM 75.50 C LEU B 449 9.750 61.042 1.00 31.55 C ATOM 75.50 C LEU B 449 9.750 61.042 1.00 31.55 C ATOM 75.50 C LEU B 449 9.750 61.042 1.00 32.776 C ATOM 75.50 C LEU B 449 9.750 61.042 1.00 28.75 C ATOM 75.50 C LEU B 449 9.750 61.09 20.00 27.766 C ATOM 75.50 C LEU B 449 9.750 61.09 20.00 27.766 C ATOM 75.50 C LEU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C LEU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C D.EU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C D.EU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C D.EU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C D.EU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C D.EU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C D.EU B 449 9.750 61.09 20.00 27.76 C ATOM 75.50 C D.EU B											
ATOM 75.0 CB LYS B 447 5.968 63.228 55.883 1.00 37.04 CC ATOM 75.30 CG LYS B 447 5.925 64.038 57.192 1.00 36.58 CC ATOM 75.30 CD LYS B 447 6.249 63.897 59.653 1.00 35.81 CC ATOM 75.30 CD LYS B 447 6.249 63.897 59.653 1.00 35.81 CC ATOM 75.39 NZ LYS B 447 4.944 64.489 59.979 1.00 36.74 N N ATOM 75.40 C LYS B 447 5.865 63.284 53.334 1.00 36.02 C ATOM 75.40 C LYS B 447 5.865 63.284 53.334 1.00 36.02 C ATOM 75.40 C LYS B 447 5.865 63.284 53.334 1.00 36.06 C ATOM 75.41 C LYS B 448 6.608 63.958 52.311 1.00 34.70 N ATOM 75.47 CA LYS B 448 6.759 63.325 51.039 1.00 33.31 C ATOM 75.47 CA LYS B 448 6.609 63.958 52.311 1.00 34.70 N ATOM 75.55 C LYS B 448 5.283 66.251 49.803 1.00 33.27 C ATOM 75.55 C LYS B 448 5.283 67.183 49.621 1.00 34.19 C ATOM 75.55 C LYS B 448 4.235 67.183 49.621 1.00 34.97 C ATOM 75.56 C LYS B 448 4.235 67.183 49.621 1.00 34.97 N ATOM 75.57 C LYS B 448 8.169 62.832 51.140 1.00 34.97 N ATOM 75.57 C LYS B 448 8.169 62.832 51.140 1.00 31.74 C ATOM 75.56 C LYS B 448 8.169 62.832 51.140 1.00 31.74 C ATOM 75.57 N LEU B 449 8.412 61.642 50.608 1.00 30.04 N ATOM 75.67 N LEU B 449 8.412 61.642 50.608 1.00 30.04 N ATOM 75.67 N LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 75.67 C LEU B 449 9.701 59.675 49.961 1.00 28.75 C ATOM 75.67 C LEU B 449 9.701 59.675 49.961 1.00 28.76 C ATOM 75.67 C LEU B 449 9.701 59.675 49.961 1.00 28.76 C ATOM 75.67 C D LEU B 449 9.705 59.60 C ATOM 75.60 C LEU B 449 9.705 59.60 C ATOM 75.60 C LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 449 9.705 59.60 C ATOM 75.60 C D LEU B 450 C ATOM 75.60 C D ATOM 75.60 C											
ATOM 7530 CG LYS B 447 6.149 63.134 58.382 1.00 36.58 C ATOM 7536 CE LYS B 447 6.149 63.134 58.382 1.00 36.12 C C ATOM 7536 CE LYS B 447 6.249 63.897 59.653 1.00 35.81 C ATOM 7539 NZ LYS B 447 4.944 64.489 59.979 1.00 36.74 N ATOM 7543 C LYS B 447 5.567 62.091 53.266 1.00 36.02 C ATOM 7544 O LYS B 447 5.567 62.091 53.266 1.00 36.06 O ATOM 7545 N LYS B 448 6.769 63.284 53.334 1.00 34.70 N ATOM 7545 N LYS B 448 6.769 63.955 51.039 1.00 33.31 C ATOM 7549 CB LYS B 448 6.769 63.955 51.039 1.00 33.31 C ATOM 7549 CB LYS B 448 6.769 63.955 51.039 1.00 33.31 C ATOM 7550 CB LYS B 448 5.275 64.890 49.699 1.00 34.19 C ATOM 7550 CD LYS B 448 4.225 67.183 49.021 1.00 34.70 N ATOM 7555 CD LYS B 448 4.225 67.183 49.021 1.00 34.98 C ATOM 7556 CD LYS B 448 4.225 67.183 49.021 1.00 34.98 C ATOM 7556 C LYS B 448 8.2567 68.028 48.576 1.00 34.97 N N ATOM 7565 C LYS B 448 8.2567 68.028 48.576 1.00 34.97 N N ATOM 7565 C LYS B 448 8.267 68.028 48.576 1.00 34.97 N N ATOM 7567 N LEU B 449 8.416 66.25 1.00 31.55 C ATOM 7567 N LEU B 449 8.412 61.642 50.608 1.00 30.04 N ATOM 7567 N LEU B 449 8.412 61.642 50.608 1.00 30.04 N ATOM 7567 N LEU B 449 8.773 58.628 10.00 31.55 C ATOM 7571 CB LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7576 CD LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7570 CD LEU B 449 9.705 50.057 49.561 1.00 28.55 C ATOM 7570 CD LEU B 449 9.705 50.057 49.561 1.00 28.55 C ATOM 7570 CD LEU B 449 9.705 50.057 49.579 1.00 27.762 C ATOM 7580 CD LEU B 449 9.705 61.071 50.579 1.00 28.77 B C ATOM 7580 CD LEU B 449 9.705 50.057 49.579 1.00 27.762 C ATOM 7580 CD LEU B 449 9.705 50.058 20.058 20.00 30.04 N ATOM 7580 CD LEU B 449 9.705 50.058 20.058 20.00 30.04 N ATOM 7580 CD LEU B 449 9.705 50.058 20.058 20.00 30.04 N ATOM 7580 CD LEU B 449 9.706 50.058 20.058 20.00 30.04 N ATOM 7580 CD LEU B 449 9.706 50.058 20.058 20.00 30.04 N ATOM 7580 CD LEU B 449 9.706 50.058 20.058 20.00	MOTA										
ATOM 7533 CD LYS B 447 6.249 63.87 59.653 1.00 36.12 CD ATOM 7536 CE LYS B 447 6.249 63.897 59.653 1.00 35.81 CD ATOM 7539 NZ LYS B 447 5.885 63.284 53.334 1.00 36.74 ND 7544 O LYS B 447 5.885 63.284 53.334 1.00 36.02 CD ATOM 7544 O LYS B 447 5.885 63.284 53.334 1.00 36.06 CD ATOM 7545 N LYS B 448 6.408 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.608 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.608 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.608 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.609 64.325 51.039 1.00 33.31 CC ATOM 7558 CE LYS B 448 6.609 64.320 49.883 1.00 33.27 CC ATOM 7555 CD LYS B 448 5.287 66.96 43.20 49.883 1.00 33.27 C C ATOM 7555 CD LYS B 448 4.235 67.183 49.621 1.00 34.198 CC ATOM 7556 CD LYS B 448 4.235 67.183 49.621 1.00 34.98 CC ATOM 7556 C LYS B 448 8.169 62.832 51.140 1.00 31.74 C ATOM 7567 N LEU B 449 8.422 61.642 50.608 1.00 30.174 C ATOM 7567 N LEU B 449 8.422 61.642 50.608 1.00 30.04 N ATOM 7571 CB LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7576 CD LEU B 449 9.701 59.675 49.961 1.00 28.75 C ATOM 7576 CD LEU B 449 9.705 61.071 50.579 1.00 28.76 C ATOM 7580 CD LEU B 449 9.705 61.071 50.579 1.00 28.76 C ATOM 7580 CD LEU B 449 9.705 63.038 51.852 1.00 28.08 C ATOM 7580 CD LEU B 449 9.705 65.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 9.705 65.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 9.705 65.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 9.705 58.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 C D LEU B 450 11.962 62.097 50.070 1.00 26.60 N C C ATOM 7592 C C RO B 450 11.962 62.097 50.070 1.00 26.60 N C C ATOM 7592 C C RO B 450 11.962 62.097 50.070 1.00 26.60 N C C ATOM 7592 C C RO B 450 11.4065 61.540 50.894 1.00 27.73 C C ATOM 7603 C B RO B 451 11.4065	MOTA	7527	CB	LYS	В	447	5.768	63.228	55.883	1.00 37.04	
ATOM 7533 CD LYS B 447 6.249 63.87 59.653 1.00 36.12 CD ATOM 7536 CE LYS B 447 6.249 63.897 59.653 1.00 35.81 CD ATOM 7539 NZ LYS B 447 5.885 63.284 53.334 1.00 36.74 ND 7544 O LYS B 447 5.885 63.284 53.334 1.00 36.02 CD ATOM 7544 O LYS B 447 5.885 63.284 53.334 1.00 36.06 CD ATOM 7545 N LYS B 448 6.408 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.608 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.608 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.608 63.958 52.311 1.00 34.70 N ATOM 7547 CR LYS B 448 6.609 64.325 51.039 1.00 33.31 CC ATOM 7558 CE LYS B 448 6.609 64.320 49.883 1.00 33.27 CC ATOM 7555 CD LYS B 448 5.287 66.96 43.20 49.883 1.00 33.27 C C ATOM 7555 CD LYS B 448 4.235 67.183 49.621 1.00 34.198 CC ATOM 7556 CD LYS B 448 4.235 67.183 49.621 1.00 34.98 CC ATOM 7556 C LYS B 448 8.169 62.832 51.140 1.00 31.74 C ATOM 7567 N LEU B 449 8.422 61.642 50.608 1.00 30.174 C ATOM 7567 N LEU B 449 8.422 61.642 50.608 1.00 30.04 N ATOM 7571 CB LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7576 CD LEU B 449 9.701 59.675 49.961 1.00 28.75 C ATOM 7576 CD LEU B 449 9.705 61.071 50.579 1.00 28.76 C ATOM 7580 CD LEU B 449 9.705 61.071 50.579 1.00 28.76 C ATOM 7580 CD LEU B 449 9.705 63.038 51.852 1.00 28.08 C ATOM 7580 CD LEU B 449 9.705 65.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 9.705 65.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 9.705 65.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 9.705 58.038 51.852 1.00 27.76 C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 N CD LEU B 449 10.660 61.932 49.748 1.00 27.73 C C ATOM 7580 C D LEU B 450 11.962 62.097 50.070 1.00 26.60 N C C ATOM 7592 C C RO B 450 11.962 62.097 50.070 1.00 26.60 N C C ATOM 7592 C C RO B 450 11.962 62.097 50.070 1.00 26.60 N C C ATOM 7592 C C RO B 450 11.4065 61.540 50.894 1.00 27.73 C C ATOM 7603 C B RO B 451 11.4065	MOTA	7530	CG	LYS	В	447	5.925	64.038	57.192	1.00 36.58	С
ATOM 7539 NZ LYS B 447			CD						58.382		C
ATOM 7539 NZ LYS B 447											
ATOM 7544 O LYS B 447											
ATOM 7545 N LYS B 447											
ATOM 7545 N LYS B 448 6.408 63.958 52.311 1.00 34.70 N ATOM 7547 CA LYS B 448 6.669 64.320 49.883 1.00 33.31 C C ATOM 7552 CG LYS B 448 5.275 64.890 49.893 1.00 34.19 C ATOM 7555 CD LYS B 448 5.283 66.251 49.021 1.00 34.98 C ATOM 7555 CD LYS B 448 4.235 67.183 49.021 1.00 34.98 C ATOM 7556 CD LYS B 448 4.235 67.183 49.021 1.00 34.97 C ATOM 7556 CD LYS B 448 8.169 62.832 51.140 1.00 34.97 N ATOM 7561 NZ LYS B 448 8.169 62.832 51.140 1.00 31.55 C ATOM 7566 N LEU B 449 8.412 61.642 50.608 1.00 31.55 C ATOM 7567 N LEU B 449 8.412 61.642 50.608 1.00 31.55 C ATOM 7569 CA LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7576 CD LYS B 448 9.750 61.071 50.579 1.00 28.75 C ATOM 7576 CD LEU B 449 9.750 61.071 50.579 1.00 28.08 C ATOM 7576 CD LEU B 449 9.369 58.038 51.852 1.00 27.98 C ATOM 7576 CD LEU B 449 9.369 58.038 51.852 1.00 27.98 C ATOM 7578 CD LEU B 449 9.369 58.038 51.852 1.00 27.98 C ATOM 7578 CD LEU B 449 9.369 58.038 51.852 1.00 27.73 C ATOM 7580 C LEU B 449 9.369 58.038 51.852 1.00 27.73 C ATOM 7580 C D EV B 449 10.1660 61.982 49.748 1.00 27.73 C ATOM 7586 N PRO B 450 11.962 62.997 50.070 1.00 26.60 C ATOM 7587 CA PRO B 450 11.962 62.997 50.070 1.00 26.60 C ATOM 7598 C B PRO B 450 11.962 62.997 50.031 1.00 26.41 C ATOM 7599 C B PRO B 450 11.962 62.997 50.031 1.00 26.41 C C ATOM 7599 C PRO B 450 12.933 62.812 49.220 1.00 26.60 C ATOM 7599 C PRO B 450 12.933 62.812 49.220 1.00 26.69 N ATOM 7599 C PRO B 450 12.933 62.812 49.220 1.00 26.60 C ATOM 7599 C PRO B 450 12.933 62.812 49.220 1.00 26.60 C ATOM 7599 C PRO B 450 12.933 62.812 49.220 1.00 26.60 C ATOM 7599 C PRO B 450 12.933 62.812 49.220 1.00 26.60 C ATOM 7599 C PRO B 450 12.933 62.812 49.220 1.00 26.60 C ATOM 7599 C PRO B 450 13.138 62.151 47.850 1.00 26.69 N ATOM 7600 C PRO B 451 13.380 62.812 49.220 1.00 26.69 N ATOM 7600 C PRO B 451 13.380 62.814 46.894 1.00 26.56 O ATOM 7600 C PRO B 451 13.380 62.854 46.894 1.00 26.69 N ATOM 7601 C A PRO B 451 13.804 60.024 44.722 1.00 26.69 N ATOM 7612 C PRO B 451 14.486 60.792 45.404 1.00 27.34 C ATOM 7612 C PRO B 451											
ATOM 7549 CB LYS B 448 6.759 63.325 51.039 1.00 33.31 C C ATOM 75549 CB LYS B 448 5.275 64.890 49.699 1.00 34.19 C C ATOM 7555 CD LYS B 448 5.275 64.890 49.699 1.00 34.19 C C ATOM 7558 CE LYS B 448 4.235 67.183 49.621 1.00 35.27 C C ATOM 7561 NZ LYS B 448 3.627 68.028 48.576 1.00 34.97 N ATOM 7565 C LYS B 448 8.669 62.832 51.140 1.00 31.74 C ATOM 7566 C LYS B 448 9.022 63.518 51.685 1.00 31.74 C ATOM 7567 N LEU B 449 9.022 63.518 51.685 1.00 31.74 C ATOM 7567 N LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7567 N LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7576 CD LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7571 CB LEU B 449 9.701 59.675 49.961 1.00 28.75 C ATOM 7576 CD LEU B 449 8.790 57.527 49.579 1.00 28.08 C ATOM 7578 CD LEU B 449 9.369 58.038 51.852 1.00 27.62 C ATOM 7578 CD LEU B 449 9.369 58.038 51.852 1.00 27.62 C ATOM 7580 CD2 LEU B 449 10.660 61.982 49.748 1.00 27.73 C ATOM 7585 C LEU B 449 10.660 61.982 49.748 1.00 27.73 C ATOM 7586 N PRO B 450 11.962 62.097 50.070 1.00 26.77 N ATOM 7586 N PRO B 450 11.962 62.097 50.070 1.00 26.77 N ATOM 7592 CB PRO B 450 11.962 62.097 50.070 1.00 26.60 C ATOM 7592 CB PRO B 450 11.962 62.097 50.070 1.00 26.60 C ATOM 7595 CD PRO B 450 13.138 62.151 47.850 1.00 26.66 C ATOM 7599 C PRO B 450 13.138 62.151 47.850 1.00 26.69 N ATOM 7599 C PRO B 451 13.803 62.804 46.894 1.00 26.69 N ATOM 7600 CB PRO B 451 13.803 62.804 46.894 1.00 26.69 N ATOM 7600 CB PRO B 451 13.803 62.804 46.894 1.00 26.69 N ATOM 7600 CB PRO B 451 13.803 62.804 46.894 1.00 26.69 N ATOM 7601 CB PRO B 451 13.803 62.804 46.894 1.00 26.97 C ATOM 7602 CB PRO B 451 13.803 62.804 46.894 1.00 26.97 C ATOM 7602 CB PRO B 451 13.803 62.804 46.894 1.00 26.97 C ATOM 7602 CB PRO B 451 13.803 62.804 46.894 1.00 26.97 C ATOM 7602 CB PRO B 451 13.803 62.804 46.894 1.00 26.97 C ATOM 7602 CB PRO B 451 13.803 62.804 46.894 1.00 26.97 C ATOM 7602 CB PRO B 451 13.804 60.024 44.722 1.00 26.506 C ATOM 7602 CB PRO B 451 13.804 60.024 44.722 1.00 26.97 C ATOM 7602 CB PRO B 451 13.804 60.024 44.722 1.00 26.97 C ATOM 763											
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ATOM 7555 CG LYS B 448 5.275 64.890 49.699 1.00 34.19 CC ATOM 7555 CD LYS B 448 4.235 67.183 49.621 1.00 34.98 CC ATOM 7561 NZ LYS B 448 3.627 68.028 48.576 1.00 34.97 N ATOM 7566 C LYS B 448 3.627 68.028 48.576 1.00 34.97 N ATOM 7566 C LYS B 448 9.022 63.518 51.605 1.00 31.74 C ATOM 7566 C LYS B 448 9.022 63.518 51.605 1.00 31.74 C ATOM 7567 N LEU B 449 9.022 63.518 51.605 1.00 30.04 N ATOM 7567 N LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7571 CB LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7571 CB LEU B 449 8.773 58.628 50.582 1.00 28.08 C ATOM 7576 CD1 LEU B 449 8.773 58.628 50.582 1.00 27.62 C ATOM 7580 CD2 LEU B 449 9.369 58.038 51.852 1.00 27.62 C ATOM 7580 CD2 LEU B 449 9.660 61.982 49.748 1.00 27.76 C ATOM 7586 CD2 LEU B 449 10.660 61.982 49.748 1.00 27.76 C ATOM 7586 N PRO B 450 11.962 62.997 50.070 1.00 26.60 C ATOM 7587 CA PRO B 450 11.962 62.997 50.070 1.00 26.60 C ATOM 7587 CA PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7598 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7598 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7595 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7595 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7598 CD PRO B 450 13.138 62.151 47.650 1.00 26.36 C C ATOM 7599 CD PRO B 450 13.138 62.151 47.650 1.00 26.36 C C ATOM 7599 CD PRO B 450 13.138 62.151 47.650 1.00 26.48 C ATOM 7599 CD PRO B 451 13.1380 62.256 45.533 1.00 26.97 C C ATOM 7600 CD PRO B 451 14.065 61.540 50.847 1.00 26.36 C C ATOM 7600 CD PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7601 CA PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7602 CD PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7602 CD PRO B 451 14.666 60.792 45.404 1.00 27.32 C C ATOM 7602 CD PRO B 451 14.666 60.792 45.404 1.00 27.32 C C ATOM 7602 CD PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7612 C PRO B 451 14.696 60.792 45.404 1.00 27.32 C C ATOM 7612 C PRO B 451 14.696 60.792 45.404 1.00 27.32 C C ATOM 7612 C D PRO B 451 14.696 60.792 45.404 1.00 27.32 C C ATOM 7631 C LEU B 452 15.596	ATOM	7547	CA	LYS	В	448	6.759	63.325	51.039		
ATOM 7555 CG LYS B 448 5.275 64.890 49.699 1.00 34.19 CC ATOM 7555 CD LYS B 448 4.235 67.183 49.621 1.00 34.98 CC ATOM 7561 NZ LYS B 448 3.627 68.028 48.576 1.00 34.97 N ATOM 7566 C LYS B 448 3.627 68.028 48.576 1.00 34.97 N ATOM 7566 C LYS B 448 9.022 63.518 51.605 1.00 31.74 C ATOM 7566 C LYS B 448 9.022 63.518 51.605 1.00 31.74 C ATOM 7567 N LEU B 449 9.022 63.518 51.605 1.00 30.04 N ATOM 7567 N LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7571 CB LEU B 449 9.750 61.071 50.579 1.00 28.75 C ATOM 7571 CB LEU B 449 8.773 58.628 50.582 1.00 28.08 C ATOM 7576 CD1 LEU B 449 8.773 58.628 50.582 1.00 27.62 C ATOM 7580 CD2 LEU B 449 9.369 58.038 51.852 1.00 27.62 C ATOM 7580 CD2 LEU B 449 9.660 61.982 49.748 1.00 27.76 C ATOM 7586 CD2 LEU B 449 10.660 61.982 49.748 1.00 27.76 C ATOM 7586 N PRO B 450 11.962 62.997 50.070 1.00 26.60 C ATOM 7587 CA PRO B 450 11.962 62.997 50.070 1.00 26.60 C ATOM 7587 CA PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7598 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7598 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7595 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7595 CD PRO B 450 11.962 62.997 50.070 1.00 26.60 C C ATOM 7598 CD PRO B 450 13.138 62.151 47.650 1.00 26.36 C C ATOM 7599 CD PRO B 450 13.138 62.151 47.650 1.00 26.36 C C ATOM 7599 CD PRO B 450 13.138 62.151 47.650 1.00 26.48 C ATOM 7599 CD PRO B 451 13.1380 62.256 45.533 1.00 26.97 C C ATOM 7600 CD PRO B 451 14.065 61.540 50.847 1.00 26.36 C C ATOM 7600 CD PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7601 CA PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7602 CD PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7602 CD PRO B 451 14.666 60.792 45.404 1.00 27.32 C C ATOM 7602 CD PRO B 451 14.666 60.792 45.404 1.00 27.32 C C ATOM 7602 CD PRO B 451 14.749 64.553 45.638 1.00 26.97 C C ATOM 7612 C PRO B 451 14.696 60.792 45.404 1.00 27.32 C C ATOM 7612 C PRO B 451 14.696 60.792 45.404 1.00 27.32 C C ATOM 7612 C D PRO B 451 14.696 60.792 45.404 1.00 27.32 C C ATOM 7631 C LEU B 452 15.596	ATOM	7549	CB	LYS	В	448	6.669	64.320	49.883	1.00 33.27	С
ATOM 7558 CD LYS B 448	ATOM	7552	CG	LYS	В	448	5.275	64.890	49.699	1.00 34.19	С
ATOM 7561 NZ LYS B 448									49.021		С
ATOM 7561 NZ LYS B 448											č
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ATOM 7598 C PRO B 450	ATOM	7595	CD	PRO	В	450	12.631	61.559	51.264	1.00 26.56	С
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ATOM 7621 CG LEU B 452 18.165 57.425 46.196 1.00 31.15 C ATOM 7623 CD1 LEU B 452 18.178 56.894 44.714 1.00 31.92 C ATOM 7627 CD2 LEU B 452 19.606 57.399 46.767 1.00 32.38 C ATOM 7631 C LEU B 452 15.121 57.952 46.325 1.00 27.55 C ATOM 7632 O LEU B 452 15.012 56.874 45.734 1.00 28.06 O ATOM 7633 N LEU B 453 14.399 58.237 47.401 1.00 27.00 N ATOM 7635 CA LEU B 453 13.393 57.294 47.923 1.00 26.27 C ATOM 7637 CB LEU B 453 13.138 57.540 49.407 1.00 25.68 C ATOM 7640 CG LEU B 453 14.400 57.532 50.278 1.00 24.28 C ATOM 7642 CD1 LEU B 453 14.057 57.776 51.757 1.00 23.69 C ATOM 7646 CD2 LEU B 453 15.198 56.240 50.093 1.00 22.47 C	ATOM	7618	CB	LEU	В	452	17.507	58.826	46.389	1.00 28.73	С
ATOM 7623 CD1 LEU B 452 18.178 56.894 44.714 1.00 31.92 C ATOM 7627 CD2 LEU B 452 19.606 57.399 46.767 1.00 32.38 C ATOM 7631 C LEU B 452 15.121 57.952 46.325 1.00 27.55 C ATOM 7632 O LEU B 452 15.012 56.874 45.734 1.00 28.06 O ATOM 7633 N LEU B 453 14.399 58.237 47.401 1.00 27.00 N ATOM 7635 CA LEU B 453 13.393 57.294 47.923 1.00 26.27 C ATOM 7637 CB LEU B 453 13.138 57.540 49.407 1.00 25.68 C ATOM 7640 CG LEU B 453 14.400 57.532 50.278 1.00 24.28 C ATOM 7642 CD1 LEU B 453 14.057 57.776 51.757 1.00 23.69 C ATOM 7646 CD2 LEU B 453 15.198 56.240 50.093 1.00 22.47 C	ATOM		CG							1.00 31.15	Ċ
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ATOM 7646 CD2 LEU B 453 15.198 56.240 50.093 1.00 22.47 C	ATOM	7642	CD1	LEU	В	453				1.00 23.69	
	ATOM						15.198	56.240			C
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ATOM	7651	0	LEU B	453	11.378	56.374	47.071	1.00 26.26	
MOTA	7652	N	SER B		11.719	58.510	46.593	1.00 20.20	
ATOM	7654	CA	SER B		10.516	58.629	45.771	1.00 27.23	
ATOM	7656	СВ	SER B		10.341	60.051	45.256	1.00 27.30	
ATOM	7659	OG	SER B		9.176	60.137	44.461	1.00 27.17	
ATOM	7661	C	SER B		10.546	57.685	44.570		
ATOM	7662	ŏ	SER B		9.548	57.055		1.00 28.60	
ATOM	7663	N	GLU B		11.684	57.578	43.900	1.00 28.67	
ATOM	7665	CA	GLU B		11.711	56.799		1.00 29.39	
ATOM	7667	CB	GLU B		12.880	57.192	42.693 41.804	1.00 30.28	
ATOM	7670	CG	GLU B		14.270	56.907	42.332	1.00 30.98 1.00 34.53	
ATOM	7673	CD	GLU B		15.352	57.392	41.361		
ATOM	7674	OE1	GLU B		15.249	57.056	40.142	1.00 39.06	
ATOM	7675		GLU B		16.300	58.099	41.809	1.00 41.53 1.00 40.65	
MOTA	7676	C	GLU B		11.659		42.947	1.00 40.65	
ATOM	7677	ō.	GLU B		11.347	54.555	42.035	1.00 30.47	•
ATOM	7678	Ň	ILE B		11.917	54.868	44.176	1.00 30.99	
MOTA	7680	CA	ILE B		11.794	53.440	44.533	1.00 30.71	
ATOM	7682	СВ	ILE B		12.909		45.536	1.00 30.70	
ATOM	7684		ILE B		14.241	53.638	45.165	1.00 30.30	
ATOM	7687	CD1	ILE B		15.194	53.630		1.00 32.23	
ATOM	7691	CG2	ILE B		13.105	51.465	45.551	1.00 30.72	
ATOM	7695	С	ILE B		10.423	53.077	45.118	1.00 30.72	
ATOM	7696	O	ILE B		9.972	51.948	44.964	1.00 30.77	
· ATOM	7697	N	TRP B		9.754	54.015	45.781	1.00 29.72	
MOTA	7699	CA	TRP B		8.610	53.668	46.626	1.00 29.22	
ATOM	7701	CB	TRP B		8.993	53.752	48.104	1.00 29.06	
ATOM	7704	CG	TRP B		10.023	52.799		1.00 26.61	
ATOM	7705	CD1	TRP B		10.233	51.534	48.082	1.00 26.22	
ATOM	7707	NE1	TRP B		11.267	50.950	48.771	1.00 25.62	
ATOM	7709	CE2	TRP B	457	11.742	51.844	49.689	1.00 23.49	
ATOM	7710	CD2	TRP B	457	10.969	53.014	49.575	1.00 23.71	
ATOM	7711	CE3			11.244	54.082	50.426	1.00 23.40	
MOTA	7713	CZ3	TRP B	457	12.278	53.953	51.353	1.00 22.52	
ATOM	7715	CH2	TRP B		13.016	52.780	51.435	1.00 23.80	
ATOM	7717	CZ2	TRP B		12.765	51.711	50.606	1.00 23.37	
ATOM	7719	С	TRP B		7.360	54.498	46.430	1.00 29.43	
ATOM	7720	0	TRP B		6.335	54.165	46.996	1.00 30.24	
ATOM	7721	N	ASP B		7.414	55.582	45.680	1.00 29.55	
ATOM	7723	CA	ASP B		6.172	56.245	45.270	1.00 29.58	
ATOM	7725	CB	ASP B		6.383	57.748	44.993	1.00 29.62	
ATOM	7728	CG	ASP B		6.558	58.597	46.270	1.00 29.19	
ATOM	7729		ASP B		5.853	58.388	47.276	1.00 27.26	
MOTA	7730		ASP B		7.375	59.536	46.325	1.00 29.12	
ATOM ATOM	7731 7732	C	ASP B		5.643	55.547	44.020	1.00 29.27	
ATOM ·	7733	0	ASP B		4.540	55.010	44.023	1.00 29.42	
ATOM	7734	013	444 B	500	15.894	52.486	56.865	1.00 48.14	
ATOM	7735	014	444 B	500	15.474	51.542	57.867	1.00 46.56	
ATOM	7736	C01	444 B	500	16.396	50.427	58.018	1.00 48.32	
ATOM	7737	C02	444 B	500.	15.582	52.491	59.353	1.00 48.77	•
ATOM	7739	C03	444 B	500	15.889 15.958	51.818 52.565	60.575	1.00 50.65	
ATOM	7741	C04	444 B	500	15.718		61.760	1.00 51.57	
ATOM	7743	C05	444 B	500	15.716	53.958 54.615	61.711	1.00 52.37	
ATOM	7745	C06	444 B	500	15.333	53.878	60.487 59.291	1.00 51.11	
ATOM	7747	N15	444 B	500	13.727	51.138	57.775	1.00 49.40	
ATOM	7748	C16	444 B	500	13.727	50.396		1.00 36.30	
ATOM	7751	C19	·444 B	500	12.351	49.166	58.957 58.482	1.00 33.50 1.00 31.89	
ATOM	7752	F22	444 B	500	12.007	49.100	59.531	1.00 31.89	
ATOM	7753	F21	444 B	500	13.079	48.342	57.710	1.00 31.80	
ATOM	7754	F20	444 B	500	11.241	49.447	57.804	1.00 31.33	
				- 			57.004	2.00 02.02	
				•					

ATOM	7755	C23	444	В	500	12.784	52.170	57.243	1.00 29.65	С
ATOM	7756		444	В	500	12.771	52.362	55.844	1.00 27.35	C
MOTA	7758		444		500	11.945	53.318	55.224	1.00 24.31	C
MOTA	7760		444			11.911	52.985	58.037	1.00 25.39	· C
MOTA	7762		444			11.090	53.944	57.426	1.00 23.40	C
ATOM	7764		444 444			11.076 10.204	54.137 55.176	56.001 55.214	1.00 22.41 1.00 21.07	C
MOTA MOTA	7765 7766		444			8.816	55.450	55.874	1.00 21.07	. C
ATOM	7767		444			8.015	56.167	55.037	1.00 20.33	দ
ATOM	7768		444.			8.113	54.341	56.184	1.00 21.82	F F
ATOM	7769		444			8.986	56.096	57.053	1.00 21.46	F
MOTA	7770		444			9.950	54.781	53.835	1.00 19.04	. 0
ATOM	7772	C38	444	В	500	10.934	56.551	55.213	1.00 19.74	С
MOTA	7773		444			11.397	56.954	56.422	1.00 18.29	F
MOTA	7774		444			12.019	56.555	54.437	1.00 18.70	F
ATOM	7775		444			10.199	57.555	54.733	1.00 20.76	F
ATOM	7776	N	LEU			68.407 67.795	95.876 94.552	84.954 85.306	1.00 20.46 1.00 20.58	N C
ATOM ATOM	7778 7780	CA CB	LEU LEU			67.795	93.651	84.059	1.00 20.30	
ATOM	7783	CG	LEU		220	66.308	92.899	83.802	1.00 21.24	Č
ATOM	7785		LEU			66.541	91.475	83.287	1.00 21.11	Ċ
ATOM	7789		LEU			65.368	92.881	85.008	1.00 21.74	C
ATOM	7793	C	LEU			68.596	93.807	86.390	1.00 20.21	C
ATOM	7794	0	LEU	С	220	69.637	93.195	86.108	1.00 20.49	0
MOTA	7797	N	THR			68.083	93.847	87.621	1.00 19.34	N
ATOM	7799	CA	THR			68.701	93.172	88.756	1.00 18.30	C
MOTA	7801	CB	THR			68.088	93.684	90.106	1.00 18.36	C
ATOM	7803	OG1	THR			66.687	93.393 95.212	90.171 90.228	1.00 17.31 1.00 17.98	O C
MOTA	7805 7809	CG2 C	THR THR			68.162 68.554	91.650	88.643	1.00 17.98	c
ATOM ATOM	7810	0	THR			67.801	91.155	87.820	1.00 17.01	ŏ
ATOM	7811	N	ALA			69.283	90.924	89.484	1.00 17.25	N
ATOM	7813	CA	ALA			69.198	89.469	89.543	1.00 16.96	C
ATOM	7815	CB	ALA			70.278	88.938	90.408	1.00 16.75	C
MOTA	7819	C	ALA	С	222	67.836	89.005	90.069	1.00 16.95	C
MOTA	7820	0	ALA			67.353	87.956	89.647	1.00 16.95	0
MOTA	7821	N	ALA			67.249	89.795	90.985	1.00 16.64	N
ATOM	7823	CA			223	65.931	89.534	91.604	1.00 15.98	C
ATOM ATOM	7825 7829	CB C	ALA		223	65.719 64.775	90.403 89.752	92.862 90.689	1.00 15.97 1.00 15.40	c
ATOM	7830	0			223	63.752	89.128	90.860	1.00 15.40	Ö
MOTA	7831	N	GLN			64.902	90.685	89.762	1.00 15.28	N
ATOM	7833	CA	GLN			63.905	90.856	88.704	1.00 15.26	C
ATOM	7835	CB	GLN			64.125	92.170	87.974	1.00 15.26	С
MOTA	7838	CG	GLN	С	224	63.680	93.387	88.762	1.00 16.25	C
MOTA	7841	CD	GLN			63.977	94.673	88.018	1.00 18.24	C
MOTA	7842	OE1	GLN			65.101	94.846	87.514	1.00 19.96	0
ATOM	7843	NE2	GLN			62.972	95.569	87.910	1.00 16.95	Й
MOTA MOTA	7846	C	GLN		224	64.006 62.996	89.698 89.093	87.722 87.358	1.00 15.13 1.00 14.53	C
ATOM	7847 7848	O N			225	65.238	89.374	87.332	1.00 14.33	И
ATOM	7850	CA			225	65.519	88.156	86.572	1.00 15.82	Č
ATOM	7852	CB			225	67.020	88.011	86.331	1.00 16.20	Ċ
ATOM	7855	CG	GLU	С	225	67.485	88.956	85.233	1.00 18.35	C
MOTA	7858	CD	GLU	С	225	68.906	88.731	84.764	1.00 20.57	C
MOTA	7859		GLU			69.832	88.588	85.616	1.00 20.32	0
MOTA	7860	OE2				69.079	88.724	83.521	1.00 22.87	0
ATOM	7861	C			225	64.962	86.894	87.235	1.00 15.54	C
MOTA	7862	0			225	64.339	86.086	86.569	1.00 15.47	0
MOTA	7863 7865	N CA			226 226	65.135 64.630	86.751 85.576	88.546 89.247	1.00 15.44 1.00 15.46	N C
ATOM	7003	CA	חפת		220	04.030			1.00 10.40	

ATC	M	78.67	СВ	LEU	С	226		65.03	R	85.553	90.72	0	1 00	15 4	_	
ATC		7870	CG .		Č			64.71		84.249	91.47			15.4		
ATC	M	7872	CD1					65.12		83.034	90.63			15.4		
ATC		7876		LEU				65.38		84.197				16.0		
ATC		7880	C	LEU		226					92.86			14.2		
ATC		7881	õ			226		63.12		85.489	89.19			15.8		
ATC		7882	N					62.59		84.406	88.99			15.9		
· ATC		7884		MET				62.42		86.607	89.36		1.00		8	
			CA	MET	C	227		60.98		86.516	89.43		1.00			
ATC		7886	CB			227		60.33		87.695	90.15		1.00			
ATC		7889	CG			227		60.18		88.921	89.35			19.8		
ATO		7892	SD			227		58.65		89.062	88.38	3	1.00	21.9	8	
ATO		7893	CE	MET				58.92		90.815	88.00		1.00	19.6	4	
ATO		7897.	C			227		60.42		86.360	88.06	8	1.00	15.4	4	
ATO		7898	0		C	227		59.37		85.790	87.94	5	1.00			
ATO		7899	N	ILE				61.12	5	86.861	87.05	0		14.9		
ATO		7901	CA	ILE				60.67	1	86.702	85.66	9	1.00	14.7	4	
ATO		7903	CB	ILE		228		61.512	2	87.586	84.69	8	1.00			
ATO		7905	CG1	ILE		228		61.08	7	89.057	84.83			16.0		
ATO		7908	CD1	ILE		228		62.068	В	90.078.	84.20	6		15.9		
ATO		7912	CG2	ILE	С	228	•	61.363		87.116	83.22	5	1.00			
ATO	М	7916	С	ILE	С	228		60.754		85.239	85.27			14.0		
ATO	М.	7917	0	ILE	С	228		59.870		84.691	84.62			12.8		
ATO	М.	7918	N	GLN	C	229		61.834		84.619	85,72	n	1 00	14.0	ο.	
ATO	м.	7920 `	CA	GLN				62.113		83.209	85.45	7	1 00	14.1	6 5	
ATO	М.	7922	CB	GLN		229		63.500	5	82.856	85.99			14.3		
ATO	м .	7925	CG	GLN	С	229		64.174		81.669	85.34			15.6		
ATO	м .	7928	CD	GLN				65.31		81.142	86.20			16.1		
ATO	М .	7929	OE1	GLN		229		65.423		79.947	86.39			16.7		
ATO	м .	7930	NE2			229		66.150		82.038	86.73			15.7		
ATO	М :	7933	С	GLN	C	229		61.057		82.331	86.09			13.3		
ATO	м -	7934	0	GLN		229		60.50		81.470	85.42			12.9		
ATO		7935	N	GLN				60.768		82.592	87.37					
ATO	M :	7937	CA ·	GLN				59.681		81.946	88.09			12.70		
ATO		7939	CB	GLN		230		59.694		82.346	89.57			12.7		
ATO		7942	CG	GLN		230		60.986		81.999	90.28			12.7		
ATO	м. Т	7945	CD	GLN				60.801		81.507	91.69		1.00	13.1	0	
ATO:	М 7	7946		GLN		230		60.394		80.380	91.91					
ATO	м :	7947	NE2	GLN				61.136		82.336	92.65			14.2		
ATO		7950	C	GLN				58.290		82.199				14.08		
ATO		7951	0	GLN		230		57.493		81.298	87.45 87.40			13.5		
ATO	м 7	7952	N	LEU				57.999		83.401	86.96			13.6		
ATO		7954	CA			231	•	56.758		83.645				14.5		
ATO		7956		LEU		231		56.575		85.121	86.21 85.85			15.10		
ATO		7959	CG	LEU				56.062		86.070	86.95	၁ ၁	1.00	15.3° 16.4°	′	
ATO		7961		LEU				55.947	,	87.467						
ATO		7965	CD2	LEU	č	231		54.732		85.634	86.33 87.62			16.5		
ATO		7969	С	LEU				56.678		82.823	84.94	T	1.00	16.52 15.35	_	
ATO		7970	0	LEU				55.615		82.333	84.61					
ATO		7971	N	VAL	č	232		57.795		82.666				15.14		
ATO		7973	CA	VAL	č	232		57.812		81.880	84.25			15.94		
ATO		7975	CB	VAL	č	232.		59.152		82.087 ·	83.02			16.58		
ATO		7977		VAL	č	232		59.405		80.995	82.23			16.85		
ATO		7981	CG2	VAL	č	232		59.161		83.455	81.19			17.02		
ATO		7985	C	VAL	č	232		57.562			81.55			17.16		
ATO		7986	ŏ	VAL	č	232		56.726		80.415	83.36			17.03		
ATO		7987	N	ALA				58.268		79.770	82.76			17.47		
ATO		989 .		ALA				58.123	,	79.899	84.36			17.59		
ATO		7991	CB	ALA	č	232 233				78.508	84.77			17.55		
ATO		995		ALA	č	532.		59.068		78.211	85.89			17.17		
ATO		7996	Ö	ALA				56.686		78.203	85.20			18.36		
ATO		997	N	ALA	Č	224		56.148		77.165	84.84			18.30		
	- '	,		ישהני	_	234		56.081	•	79.114	85.96	4	τ.00	19.19	J	

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ATOM	7999	CA	ALA	С	234	54.691	79.022	86.381	1.00	19.97	С
ATOM	8001	СВ	ALA		234	54.277	80.311	87.092		20.01	c
ATOM	8005	С	ALA			53.778	78.803	85.183		21.16	· č
ATOM	8006	0	ALA			52.928	77.918	85.203		21.00	ő
ATOM	8007	N	GLN		235	53.958	79.640	84.160		22.27	N N
ATOM	8009	CA			235	53.189	79.596	82.920		23.49	
ATOM	8011	СВ			235	53.658	80.751	82.032		23.49	· C
ATOM	8014	CG	GLN		235	52.924	80.935				C
ATOM	8017	CD			235			80.730		26.40	C
						52.370	82.363	80.544		29.80	C
· ATOM	8018	OE1	GLN			53.130	83.337	80.427		30.99	0
ATOM	8019		GLN			51.047	82.472	80.487		30.89	N
MOTA	8022	C			235	53.307	78.225	82.200		24.09	С
MOTA	8023	0			235	52.339	77.729	81.585		23.49	0
MOTA	8024	N			236	54.482	77.611	82.306		25.22	N
ATOM	8026	CA			236	54.736	76.290	81.724		26.63	C
MOTA	8028	CB			236	56.226	75.973	81.743	1.00	26.79	C
MOTA	8031	CG	LEU	С	236	56.787	75.400	80.451	1.00	28.16	C
MOTA	8033	CD1	LEU	C	236	56.763	76.459	79.351	1.00	29.45	C
ATOM	8037	CD2	LEU			58.202	74.896	80.685		_	. с
ATOM	8041	.C	LEU	С	236	54.006	75.184	82.456		27.59	· C
ATOM	8042	0			236	53.410	74.312	81.836		27.49	ō
ATOM	8043	N			237	54.060	75.242	83.785		29.25	Ŋ
ATOM	8045	CA			237	53.414	74.268	84.682		30.40	C
ATOM	8047	CB			237	53.867	74.499	86.135		30.10	Č
ATOM	8050	CG			237	55.380	74.341	86.351		30.39	C
ATOM	8053	CD			237	55.922	75.063	87.603		30.44	C
ATOM	8054	OE1			237	55.217	75.893	88.242		31.79	
ATOM	8055		GLN			57.179	74.752				0
ATOM	8058	C			237			87.950		26.66	N
ATOM	8059					51.879	74.315	84.603		31.76	C
		0			237	51.201	73.303	84.769		31.65	0
ATOM	8060	N	CYS			51.337	75.494	84.350		33.85	N
ATOM'	8062	CA			238	49.903	75.652	84.231		36.00	C
ATOM	8064	CB			238	49.534	77.116	84.461		36.02	C
MOTA	8067	SG			238	49.621	77.474	86.236		37.59	S
ATOM	8068	C			238	49.386	75.105	82.891		37.79	C
ATOM	8069	0			238	48.207	74.813	82.764	1.00	37.55	0
ATOM	8070	N			239	50.285	74.946	81.921	1.00	40.34	N
MOTA	8072	CA			239	50.019	74.205	80.698	1.00	42.63	C
ATOM	8074	CB			239	51.118	74.510	79.681	1.00	42.83	C
ATOM	8077	CG			239	50.786	74.006	78.315	1.00	44.12	C
ATOM	8078		ASN			49.798	74.422	77.728	1.00	46.84	0
ATOM	8079	ND2	ASN			51.598	73.085	77.798	1.00	46.09	N
ATOM	8082	С	ASN	С	239	49.939	72.691	80.963		44.86	C
ATOM	8083	0	ASN	C	239	50.957	71.989	80.997		45.24	ō
MOTA	8084	N	LYS	С	240	48.732	72.182	81.187		47.39	N
ATOM	8086	CA			240	48.550	70.748	81.424		49.15	C
MOTA	8088	CB			240	47.781	70.503	82.729		49.57	Č
ATOM	8091	CG			240	48.507	70.929	84.012		50.75	Č
ATOM	8094	CD			240	47.948	70.193	85.265		52.28	C
ATOM	8097	CE			240	47.419	71.177	86.342		53.52	C
MOTA	8100	NZ			240	47.743	70.775	87.756		53.89	C
ATOM	8104	C			240	47.743	70.175	80.254		50.30	N
MOTA	8105	õ			240	47.424					C
ATOM	8106	N			241	47.424	68.938 70.873	80.323	1.00	50.42	0
ATOM	8108	CA						79.184		51.69	Й
					241	46.918	70.388	77.987		52.70	C
MOTA	8110	CB			241	46.974	71.449	76.886		52.54	C
ATOM	8113	CG			241	46:146	72.674	77.168		51.29	C
MOTA	8116	CD			241	46.528	73.889	76.361		49.48	C
ATOM	8119	NE			241	45.874	75.080	76.905		48.48	N
ATOM	8121	CZ			241	45.827	76.268	76.306		47.84	C
ATOM	8122	NH1	ARG	С	241	46.379	76.469	75.115	1.00	47.82	N
						 					

MOTA	8125	NH2	ARG C	241	45.207	77.269	76,909	1 00	40 25	
ATOM	8128	C	ARG C		47.557	69.102			48.35	
ATOM	8129	Ō	ARG C				77.465		54.27	
ATOM	8130	N	SER C		46.900		77.338		54.32	
ATOM	8132	CA			48.850		77.173		55.92	•
ATOM	8134			242 .	49.563		76.591		57.26	
		CB	SER C		51.019		76.283	1.00	57.29	
ATOM	8137	OG	SER C	242	51.473		77.157		58.10	
ATOM	8139	С	SER C		49.477	66.799	77.479		58.42	
MOTA	8140	0	SER C	242	49.664		76.975		59.11	
ATOM	8141	N	PHE C	243	49.206		78.781		59.46	
ATOM	8143	CA	PHE. C		48.865					
ATÓM	8145	CB	PHE C		50.077		79.686		60.31	
ATOM	8148	CG	PHE C		50.077		80.541		60.66	
ATOM	8149		PHE C	243	50.153		81.920	1.00	62.56	
					50.147	65.278	83.098		64.33	
ATOM	8151		PHE C	243	50.223		84.379	1.00	64.98	
ATOM	8153	CZ	PHE C	243	50.311		84.473	1.00	64.86	
ATOM	8155	CE2	PHE C	243	50.329	68.078	83.298	1.00	64.42	
ATOM	8157		PHE C		50.251	67.455	82.038	1.00	63.80	•
ATOM	8159	C	PHE C	243	47.669	66.186	80.583	1 00	60.21	•
ATOM	8160	O	PHE C	243	46.533		80.274		60.43	
ATOM	8161	N	LYS C		39.626		76.301			
ATOM.	8163	CA	LYS C		38.541				41.86	
ATOM	8165	CB	LYS C				77.242		42.05	
ATOM	8168	CG	LYS C	240	38.891		78.181		42.47	
ATOM	8171	CD			40.049		79.139		44.16	
ATOM	8174	CE	LYS C		39.649		80.180	1.00	46.13	
ATOM	8177		LYS C		40.526		81.417		46.95	
ATOM	8181	NZ	LYS C		40.322		82.231	1.00	47.61	
		C	LYS C		37.239		76.521	1.00	41.37	
ATOM	8182	0	LYS C		36.147		76.996	1.00	41.73	
ATOM	8183	N	VAL C		37.379		75.357	1.00	40.21	
ATOM	8185		VAL C		36.464	67.352	74.905		39.12	
ATOM	8187	CB	VAL C	249.	37.311	68.530	74.334		39.26	
ATOM	8189	CG1	VAL C	249	36.471	69.495	73.527	1.00	39.31	
ATOM	8193		VAL C		38.051	69.262	75.467	1.00	39.63	
ATOM	8197	С	VAL C	249	35.472	66.941	73.834		37.78	
ATOM	8198		VAL C		35.825	66.168	72.963		37.84	
ATOM	8199		THR C		34.256		73.880		36.34	
MOTA	8201	CA	THR C	250	33.251		72.826		35.50	
MOTA	8203	CB	THR C	250	32.101		.72.890	1 00	35.49	
MOTA	8205		THR C		31.341	68.188	74.086	1 00	35.88	
ATOM	8207		THR C		31.040		71.808	1 00	34.99	
ATOM	8211	C	THR C	250	33.918	67.351	71.458			
ATOM	8212		THR C		34.625		71 140	1.00	34.68	
ATOM	8213	N	PRO C	251	33.698		71.143		34.47	
ATOM	8214	CA	PRO C	251	34.356		70.643		33.91	
ATOM	8216	CB .	PRO C	251		66.253	69.339		33.43	
ATOM	8219		PRO C		33.774	64.977	68.720		33.40	
ATOM	8222		PRO C		33.089	64.256	69.797		33.58	
ATOM	8225		PRO C		32.787	65.193	70.878		33.69	
ATOM	8226	~	DDO C	72T	34.011	67.452	68.462		32.89	
ATOM	8227		PRO C		32.862	67.908	68.471		32.37	
			TRP C		34.986	67.957	67.718	1.00	32.56	
ATOM	8229	CA	TRP C	252	34.679	68.934	66.686	1.00	32.35	
ATOM .	8231	CB	TRP C	252	35.944	69.601	66.140		32.11	
MOTA	8234	CG	TRP C	252	35.644	70.693	65.138		29.88	
MOTA	8235	CD1	TRP C	252 -	35.682	70.590	63.784		28.00	
ATOM	8237	NE1	TRP C	252	35.329	71.785	63.212		27.26	
ATOM	8239	CE2	TRP C	252	35.055	72.690	64.201		26.41	
ATOM	8240	CD2	TRP C	252	35.243	72.035	65.427		27.25	•
ATOM	8241	CE3	TRP C	252	35.012	72.751	66.608		27.05	
MOTA	8243	CZ3	TRP C	252	34.615	74.085	66.525		26.17	
ATOM	8245	CH2	TRP C	252	34.447	74.706	65.284		25.83	

ATOM	8247	CZ2	TRP	С	252	34.661	74.028	64.116	1.00 25.44	С
MOTA	8249	С	TRP	С	252	33.952	68.186	65.570	1.00 32.80	C
ATOM	8250	0	TRP			34.509	67.232	65.025	1.00 32.69	0
MOTA	8251	N	PRO		253	32.713	68.574	65.253	1.00 33.34	N
ATOM	8252	CA	PRO			31.984	67.939	64.147	1.00 33.88	C
ATOM	8254	CB	PRO			30.613	68.655	64.147	1.00 33.74	С
ATOM	8257	CG	PRO		253	30.713	69.791	65.065	1.00 33.48	С
ATOM	8260	CD	PRO			31.897	69.594	65.939	1.00 33.29	С
MOTA	8263	С	PRO			32.697	68.001	62.763	1.00 34.60	С
ATOM	8264	0	PRO		253	32.411	68.878	61.939	1.00 34.89	0
MOTA	8265	N	ALA			33.605	67.045	62.532	1.00 35.09	N
ATOM	8267	CA	ALA			34.331	66.899	61.271	1.00 35.12	С
MOTA	8269	CB	ALA		254	35.663	66.175	61.496	1.00 35.06	С
MOTA	8273	C	ALA			33.462	66.113	60.299	1.00 34.95	C
MOTA	8274	0	ALA			32.531	66.666	59.720	1.00 34.81	0
MOTA	8275	N	GLN		259	26.034	75.361	59.136	1.00 34.42	N
ATOM	8277	CA	GLN			24.632	75.823	59.219	1.00 34.77	C
MOTA	8279	СВ	GLN			24.152	76.445	57.876	1.00 35.11	C
MOTA	8282	CG	GLN		259	23.924	78.004	57.935	1.00 36.15	C
ATOM	8285	CD	GLN			22.642	78.488	57.206	1.00 37.82	C
ATOM	8286	OE1	GLN			22.260	79.675	57.322	1.00 39.20	0
ATOM .	8287		GLN			21.988	77.583	56.462	1.00 35.43	N
ATOM	8290	C			259	23.602	74.780	59.740	1.00 34.03	C
ATOM	8291	0			259	22.420	75.113	59.872	1.00 33.75	0
MOTA	8292	N			260	24.036	73.549	60.044	1.00 33.33	И
ATOM	8294	CA			260	23.219	72.625	60.853	1.00 32.74	C
MOTA	8296	CB			260 260	23.827	71.210	60.892	1.00 32.55	C
ATOM	8299	OG				23.138	70.349	61.793	1.00 31.99	0
ATOM	8301	C			260	23.115	73.227	62.262	1.00 32.60	C
MOTA	8302	0			260	24.105 21.920	73.762	62.787	1.00 32.47	0
MOTA	8303	N			261		73.170	62.858	1.00 32.19	N
ATOM ATOM	8305 8307	CA CB			261 261	21.679 20.199	73.830 74.230	64.144 64.335	1.00 31.83	C
ATOM	8310	CG			261	19.869	75.702	63.931	1.00 31.96 1.00 33.08	C
ATOM	8313	CD			261	18.946	75.860	62.706	1.00 33.08	C
ATOM	8316	NE	ARG			17.545	75.543	63.025	1.00 34.91	N
MOTA	8318	CZ			261	16.934	74.357	62.826	1.00 30.03	C
ATOM	8319		ARG			17.575	73.322	62.288	1.00 37.43	Ŋ
ATOM	8322		ARG			15.655	74.204	63.171	1.00 37.56	N
ATOM	8325	C			261	22.194	72.974	65.295	1.00 31.11	C
ATOM	8326	ŏ			261	22.808	73.506	66.213	1.00 31.05	Ö
MOTA	8327	N	ASP			21.975	71.661	65.234	1.00 30.40	N
MOTA	8329	CA			262	22.572	70.736	66.206	1.00 29.93	C
ATOM	8331	CB			262	22.117	69.305	65.951	1.00 30.03	Ċ
ATOM	8334	CG			262	20.616	69.111	66.142	1.00 30.19	Č
ATOM	8335	OD1	ASP			19.944	68.672	65.187	1.00 30.32	0
MOTA	8336		ASP			20.015	69.349	67.205	1.00 31.11	0
MOTA	8337	С			262	24.108	70.782	66.164	1.00 29.57	С
ATOM	8338	0	ASP	C	262	24.756	70.638	67.205	1.00 29.64	0
MOTA	8339	N			263	24.679	70.986	64.968	1.00 29.00	N
MOTA	8341	CA			263	26.142	71.119	64.782	1.00 28.34	C
MOTA	8343	CB			263	26.521	70.866	63.329	1.00 28.10	С
MOTA	8347	С	ALA	С	263	26.697	72.473	65.227	1.00 28.05	C
MOTA	8348	0			263	27.877	72.586	65.584	1.00 28.04	0
MOTA	8349	N			264	25.850	73.501	65.169	1.00 27.68	N
MOTA	8351	CA			264	26.188	74.837	65.655	1.00 27.18	C
ATOM	8353	CB			264	25.058	75.834	65.322	1.00 27.74	C
ATOM	8356	CG			264	25.486	77.267	64.952	1.00 30.13	C
ATOM	8359	CD			264	24.575	77.961	63.902	1.00 33.50	С
MOTA	8362	NE			264	25.125	77.859	62.540	1.00 37.36	N
MOTA	8364	CZ	ARG	С	264	26.043	78.688	61.989	1.00 40.28	С
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	88888888888888888888888888888888888888	NH2 O N C C C C C C C C C C C C C C C C C C	ARG GLN GLN GLN GLN GLN GLN GLN GLN GLN GL	$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} 2222222222222222222$	26.528 26.382 26.391 27.453 25.361 27.453 25.361 24.019 23.785 22.673 21.664 22.879 26.488 27.948 27.961 29.137 29.085 28.238 29.129 30.783 31.321 30.783 31.321 30.546 29.485 30.840 31.925 28.190 28.887 28.399 30.165 30.840 31.925 29.735 28.190 28.887 28.7856 27.365 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076 31.3265 31.076	72.114 71.227 69.976 69.048 67.730 67.307 67.075 71.917 71.688 72.749 73.551 74.267 73.348 74.004 72.870 75.146 76.136 76.820 77.607 78.764 79.493 79.050 77.891 77.179 75.434 75.938 74.240 72.133	67.647 67.854 69.305 69.729 71.245 70.732 72.513 69.726 68.972 68.460 68.055 67.953 70.0213 69.2213 69.2213 69.2213 66.577 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 68.1719 69.652 70.741 72.1719 72.001 72.7719 72.771	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	27.23 31.49 34.62 22.85 22.85 22.63 22.63 22.63 22.63 22.63 22.63 22.63 22.63 22.63 22.63 22.63 23.93 23.93 23.93 24.03 25.63 27.98 28.05 27.98 28.05 27.98 28.05 27.98 28.05 27.05		опионения предерования предерова
								72.035	1.00	14.56		С
ATOM	8468	CG	HIS			35.204	72.133	70.545		14.66 16.74		C
ATOM	8469	ND1	HIS	С	270	35.857	70.744	70.672		18.73		И
ATOM	8471		HIS			37.138	70.828	70.359	1.00	18.04		c
ATOM ATOM	8473 8475		HIS			37.340	71.987	69.764		18.65		N
ATOM	8477	CD2	HIS		270	36.150 34.244	72.677 73.635	69.707 72.510		18.49 14.41		C
ATOM	8478	ŏ	HIS			35.193	73.499	73.258		13.94	•	C 0
ATOM	8479	N	PHE	С	271	33.821	74.814	72.077		15.11		N
ATOM	8481	CA	PHE	С	271	34.479	76.089	72.388		15.73		Ċ
•			. •									

A	MOT	8483	CB	PHE	C	271	33.773	77.198	71.613	1 00	15 00		_
	rom	8486	CG	PHE							15.88		С
							34.476	77.594	70.389		18.73		С
	POM	8487				271	34.874	76.651	69.473	1.00	20.86		С
	MOT	8489				271	35.561	77.022	68.312	1.00	22.61	•	С
A'	rom	8491	CZ	PHE	С	271	35.873	78.333	68.072	1.00	23.46		C
A'	MOT	8493	CE2	PHE	С	271	35.490	79.302	68.989		25.08		Č
	TOM	8495				271	34.790	78.926	70.156		23.86		~
	TOM	8497	C			271							C
							34.420	76.429	73.867		15.43		С
	TOM	8498	0			271	35.301	76.990	74.447	1.00	15.27		0
	TOM	8499	N	THR		272	33.291	76.111	74.431	1.00	16.05		N
A.	rom	8501	CA	THR	С	272	32.954	76.322	75.815		16.18		С
A.	MOT	8503	CB	THR	С	272	31.435	75.945	75.906		16.24		Ċ
A'	rom	8505	OG1	THR		272	30.662	77.093	76.260		18.44		Ö
	TOM	8507		THR			31.115	74.947	76.905		15.83		~
	TOM	8511	C			272							C
							33.909	75.508	76.710		16.06		С
	TOM	8512	0	THR		272	34.369	75.986	77.742		16.06		0
	TOM	8513	N			273	34.270	74.312	76.256	1.00	16.17		N
A'	rom	8515	CA	GLU	С	273	35.168	73.407	76.990	1.00	16.01		С
A.	TOM	8517	CB	GLU	С	273	34.916	71.944	76.588		15.86		C
A'	rom	8520	CG			273	33.509	71.506	76.950		17.12		č
	TOM	8523	CD			273	33.053	70.237	76.278				~
	TOM	8524		GLU		273					18.83		С
							31.896	70.177	75.770		17.58		0
	TOM	8525	OE2				33.854	69.289	76.311		23.37		0
	MOT	8526	С			273	36.627	73.783	76:788		15.47		С
	MOT	8527	0	GLU	С	273	37.434	73.573	77.662	1.00	15.17		0
A:	rom	8528	N	LEU	С	274	36.971	74.355	75.650		15.35		N
A!	ľOM	8530	CA	LEU	С	274 .	38.303	74.947	75.535		15.67		C
Αſ	rom	8532	CB	LEU			38.675	75.292	74.069		15.77		c
	TOM	8535	CG			274	38.623	74.150					<u></u>
	rom	8537							73.040		16.76		С
				LEU		274	39.106	74.592	71.689		15.92		C
	TOM	8541		LEU			39.413	72.936	73.500		17.77		С
	TOM	8545	С	LEU			38.445	76.167	76.486	1.00	15.04		С
A.	MOT	8546	0	LEU		274	39.422	76.250	77.215	1.00	15.58		0
A.	TOM	8547	N	ALA	С	275	37.479	77.076	76.517		14.12		N
A.	MOT	8549	CA	ALA	С	275	37.538	78.172	77.473		14.24		ä
A'	ГОМ	8551	CB	ALA		275	36.372	79.116	77.314		14.24		C
	TOM	8555	C	ALA			37.621	77.680	78.916				<u>_</u>
	TOM	8556	ŏ	ALA							14.53		С
	TOM						38.372	78.231	79.725		14.45		0
		8557	N	ILE		276	36.878	76.640	79.258		14.52		N
	rom	8559	CA			276	37.017	76.125	80.613		14.89		С
	TOM	8561	CB			276	35.952	75.057	80.921	1.00	14.62		C
A'	MOT	8563	CG1	ILE	С	276	34.659	75.745	81.324		14.39		С
A:	MOT	8566	CD1	ILE	С	276	33.486	74.802	81.357		14.79		Č
A.	MOT	8570	CG2	ILE	С	276	36.378	74.145	82.042		15.05		C
	MOT	8574	С			276	38.472	75.648	80.894				
	rom	8575	ŏ	ILE				75.040			15.15		C
							39.021	75.983	81.938		15.88		0
	MOT	8576	N	ILE			39.105	74.917	79.986		14.95		N
	MOT	8578	CA	ILE			40.508	74.571	80.181	1.00	15.24		C
	rom	8580	CB	ILE			41.068	73.786	78.980	1.00	15.29		С
A?	MOT	8582	CG1	ILE	С	277	40.395	72.418	78.849		14.81		č
A.	MOT	8585		ILE			40.549	71.790	77.473		14.39		C
A	rom	8589		ILE			42.569	73.589	79.115				~
	MOT	8593	C	ILE			41.365				15.22		C
	MOT	8594	_					75.835	80.453		16.14		С
			0	ILE			42.272	75.817	81.306		15.48		0
	MOT	8595	N	SER			41.081	76.937	79.763		17.05		N
	MOT	8597	CA	SER			41.862	78.159	79.982	1.00	18.26		С
	MOT	8599	CB	SER	С	278	41.579	79.195	78.913		18.25		Ċ
A:	rom	8602	OG	SER			42.183	78.803	77.710		21.13		ŏ
	MOT	8604	С	SER			41.606	78.794	81.328		18.55		~
	MOT	8605	ō	SER			42.535	79.250	81.976				C
	MOT	8606	N	VAL							18.73		0
	. 041	3000	7.4	AMD	<u> </u>	413	40.337	78.854	81.717	T.00	19.13		N

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ATOM	8608	CA	VAL	C 279		39.946	79.399	82.996	1 00 10 20	
ATOM	8610	CB	VAL			38.422	79.263	83.218	1.00 19.38	
ATOM	8612	CG1	VAL	C 279		38.068	79.485	84.675	1.00 19.63 1.00 19.71	
ATOM	8616	CG2	VAL	C 279		37.673	80.259	82.351	1.00 19.71	
ATOM	8620	С	VAL	C 279		40.742	78.717	84.107	1.00 19.37	
ATOM	8621	0		C 279		41.283	79.385	84.977		
ATOM	8622	N		C 280		40.844	77.397	84.038	1.00 18.84	•
ATOM	8624	CA		C 280		41.561	76.610	85.038	1.00 20.05	_
ATOM	8626	CB		C 280		41.387	75.099	84.779	1.00 20.99 1.00 21.16	-
ATOM	8629	CG		C 280		39.938	74.621	85.031		
MOTA	8632	CD	GLN .			39.677	73.134	84.764	1.00 22.87	•
ATOM	8633	OE1		C 280		40.022	72.595	83.702	1.00 23.27	
ATOM	8634	NE2				39.007	72.493	85.708	1.00 23.04	
MOTA	8637	.c		C 280		43.028	76.992	85.069	1.00 21.18	
MOTA	8638	0	GLN	C 280		43.582	77.252	86.122	1.00 21.43	
ATOM	8639	N	GLU	C 281		43.648	77.043	83.906	1.00 22.17	
ATOM	8641	CA	GLU			45.040	77.401	83.811	1.00 21.62	
ATOM	8643	СВ		C 281		45.458	77.362	82.350	1.00 22.14	
ATOM	8646	CG		C 281		45.460	75.961	81.784	1.00 22.58	•
ATOM	8649	CD	GLU	C 281		46.005	75.892	80.377	1.00 23.93	
ATOM	8650	OE1	GLU	C 281		46.484	76.928	79.869	1.00 25.78	
ATOM	8651		GLU (C 281		45.953	74.781		1.00 25.80	
ATOM	8652	C	GLU	C 281		45.348	78.793	79.794	1.00 28.08	
ATOM	8653	Ō		C 281		46.351	79.012	84.361 85.047	1.00 22.28	
ATOM	8654	N		282		44.504	79.745		1.00 22.14	
ATOM	8656	CA	ILE (282		44.670	81.095	84.024	1.00 22.54	
MOTA	8658	СВ	ILE (282		43.659	82.024	84.519	1.00 22.92	
ATOM	8660	CG1				43.989	82.210	83.863	1.00 22.97	
ATOM	8663	CD1		282		42.862	82.862	82.383		
MOTA	8667	CG2		282		43.652	83.368	81.586	1.00 23.40	
ATOM	8671	C	ILE (282		44.509	81.164	84.588	1.00 24.23	
ATOM .	8672	Ō	ILE (45.172	81.981	86.050 86.687	1.00 23.31	
ATOM	8673	N		283		43.623	80.349		1.00 24.19	
ATOM	8675	CA	VAL	283		43.436	80.374	86.636 88.075	1.00 22.61	
ATOM	8677	СВ	VAL	283		42.161	79.568	88.543	1.00 22.32	
ATOM	8679		VAL	283		42.222	79.274	90.040	1.00 22.19	
ATOM	8683	CG2	VAL (283		40.885	80.333	88.239	1.00 21.88	
ATOM	8687	С	VAL (·	44.711	79.834	88.757	1.00 20.78	
ATOM	8688	0	VAL (45.164	80.367	89.776	1.00 22.63	
MOTA	8689	N	ASP C			45.279	78.771	88.202	1.00 22.75	
ATOM	8691	CA	ASP C	284		46.484	78.174	88.761	1.00 22.59 1.00 22.78	
MOTA	8693	CB	ASP C			46.843	76.887	88.033	1.00 22.78	
ATOM	8696	CG	ASP C			45.915	75.767	88.355	1.00 25.75	
ATOM	8697	OD1	ASP C	284		45.928	74.776	87.589	1.00 25.75	
ATOM	8698	OD2	ASP C	284		45.144	75.788	89.345	1.00 30.32	
MOTA	8699	С	ASP C	284		47.634	79.119	88.620	1.00 29.12	
MOTA	8700	0	ASP C	284		48.455	79.250	89.520	1.00 22.09	
ATOM	8701	N	PHE C	285		47.697	79.781	87.473	1.00 22.04	
ATOM	8703	CA		285		48.791	80.695	87.216	1.00 21.76	
ATOM	8705	CB	PHE C			48.822	81.161	85.760	1.00 21.35	
ATOM	8708	CG	PHE C	285		49.906	82.156	85.483	1.00 20.14	
ATOM	8709	CD1	PHE C	285		51.211	81.785	85.451	1.00 20.14	
ATOM	8711	CE1	PHE C	285		52.190	82.731	85.214	1.00 20.14	
ATOM	8713	CZ	PHE C	285		51.880	84.028	85.036	1.00 19.57	
MOTA	8715	CE2	PHE C	285		50.621	84.408	85.070	1.00 17.52	
ATOM	8717	CD2	PHE C	285		49.618	83.478	85.296		
MOTA	8719	С	PHE C			48.748	81.873	88.208	1.00 21.14 1.00 21.51	
ATOM	8720	0	PHE C			49.776	82.187	88.819	1.00 21.51	
MOTA	8721	N	ALA C			47.573	82.476	88.411	1.00 21.70	
MOTA	8723	CA	ALA C			47.447	83.633	89.303	1.00 21.08	
ATOM	8725	СВ	ALA C				84.111	89.347	1.00 21.05	
									2.00 20.00	
								•		

MOTA	8729	С	ALA	C	286	47.	933	83.331	90.717	1.00	21.37	С	
ATOM	8730		ALA			48.	581	84.183	91.346		20.40	0	
ATOM	8731		LYS				632	82.108	91.181		21.89	N	
ATOM	8733		LYS				037	81.617	92.494		22.91	C	
			LYS				450	80.200	92.767		24.20	C	
ATOM	8735											C	
ATOM	8738		LYS		287		998	80.062	93.408		28.09	C	
MOTA	8741		LYS				073	81.324	93.216		33.90	С	
ATOM	8744		LYS		287		517	81.009	93.140		36.88	С	
MOTA	8747	NZ	LYS	C	287	42.	894	80.562	94.443	1.00	36.46	N	
ATOM	8751	С	LYS	С	287	49.	568	81.580	92.624		22.37	С	
ATOM	8752	Ö	LYS				078	81.671	93.730		22.07	0	
ATOM	8753	N	GLN		288		289	81.419	91.507		22.16	N	
			GLN				767	81.415			22.02	Č	
ATOM	8755	CA										Č	
ATOM	8757	CB	GLN				344	80.364	90.525		22.35	C	
ATOM	8760	CG	GLN		288		.179	78.882	90.981		24.94	C	
MOTA	8763	CD	GLN				. 223	78.394	92.061		29.71	С	
ATOM	8764		GLN			53	. 582	79.133	93.000	1.00	33.10	0	
ATOM	8765	NE2	GLN	C	288	53	. 689	77.148	91.914	1.00	30.72	N	ĺ
ATOM	8768	С	GLN	С	288	52	.403	82.787	91.271	1.00	20.81	C	;
ATOM	8769	0	GLN				. 608	82.910		1.00	20.00	0	
ATOM	8770	N	VAL			51	.595	83.814	91.054		20.62	N	ï
	8772	CA	VAL				.101	85.189	90.927		20.38	Ċ	•
ATOM			VAL				.119	86.084	90.141		20.08	C	,
ATOM	8774	CB											•
ATOM	8776		VAL		289		.611	87.489	90.103		20.13	C	•
MOTA	8780		VAL				.922	85.567	88.728		19.83	C	;
ATOM	8784	С	VAL				.285	85.775	92.337		20.40	C	;
MOTA	8785	0	VAL	С	289	51	.306	85.863	93.089	1.00	20.53	C	
ATOM	8786	N	PRO	С	290	53	.508	86.160	92.722	1.00	20.04	N	1
ATOM	8787	CA	PRO	C	290	53	.716	86.672	94.083	1.00	19.48	C	3
ATÓM	8789	CB	PRO				.193	87.062	94.105		19.41	C	3
ATOM	8792	CG			290		.833	86.367	92.956		19.42	Č	•
	8795	CD			290		.763	86.136	91.944		19.87	Ċ	ί.
ATOM												Č	,
ATOM	8798	С			290		.819	87.879	94.342		19.25	Ċ	΄.
ATOM	8799	0			290		.659	88.740	93.473		18.38		
MOTA	8800	N	GLY		291		.218	87.919	95.525		19.53	Ŋ	
ATOM	8802	CA			291		.323	89.009	95.886		19.72	C	3
ATOM	8805	С	${ t GLY}$		291		.852	88.656	95.740		20.00	C	
ATOM	8806	0	GLY	С	291	49	.038	89.109	96.516	1.00	19.68	C	
ATOM	8807	N	PHE	С	292	49	.511	87.845	94.738	1.00	20.11	P.	J
ATOM	8809	CA			292		.134	87.538	94.451	1.00	19.77	C	3
MOTA	8811	СВ			292		.020	86.597	93.250	1.00	19.74	C	
ATOM	8814	CG			292		.603	86.360	92.821		18.39	č	-
	8815	CD1			292		.900	87.341	92.157		17.92	(Ź
MOTA			PHE				.579	87.142	91.817		17.58	č	ζ.
MOTA	8817												້
ATOM	8819	CZ			292		.960	85.950	92.128		16.95		
MOTA	8821		PHE				.657	84.976	92.776		15.96	Ç	C
MOTA	8823		PHE				.957	85.189	93.145		16.46	(C
MOTA	8825	С			292	47	.458	86.946	95.661		20.36		C
ATOM	8826	0	PHE	С	292	46	.442	87.449	96.083	1.00	20.37	(0
MOTA	8827	N	LEU	С	293	48	.026	85.891	96.234	1.00	21.32	ì	N
MOTA	8829	CA	LEU	С	293	47	.397	85.212	97.373	1.00	21.95	(С
ATOM	8831	CB			293		.998	83.815	97.597		21.81	(С
ATOM	8834	CG			293		.667	82.680	96.614		21.20		C
MOTA	8836		LEU				.479	81.475	96.968		21.14	Č	C
							.203	82.287	96.583		21.07		c
ATOM	8840		LEU										ž
MOTA	8844	C			293		.476	86.023	98.671	1.00	23.07		C
MOTA	8845	0			293		.901	85.605	99.690		23.23		0
ATOM	8846	N			294		.204	87.149	98.633		24.35		N
ATOM	8848	CA			294		.249	88.137	99.730		25.42		C
MOTA	8850	CB			294		.418	89.148	99.588		26.23		С
MOTA	8853	CG	GLN	C	294	50	.695	88.853	100.392	1.00	29.60	(C
								····					

ATOM	8856	CD	GLN (294		51.547	87.742	00 774	1 00 0-	_
ATOM	8857	OE1				52.159	87.936	99.774 98.705	1.00 35.0	
ATOM	8858	NE2	GLN (51.576	86.564	100.433	1.00 38.8	
ATOM	8861	С	GLN (•	46.944	88.916	99.799	1.00 36.9 1.00 24.8	
ATOM	8862	0	GLN (46.451	89.156	100.878	1.00 24.8 1.00 25.5	8
ATOM ·	8863	N	LEU (46.407	89.322	98.651	1.00 25.5	Ţ.
ATOM	8865	CA	LEU (45.109	89.987	98.571	1.00 24.4 1.00 24.1	6
ATOM	8867	CB	LEU (44.701	90.228	97.101	1.00 24.1	
ATOM	8870	CG	LEU (45.531	91.273	96.334	1.00 24.1	
MOTA	8872	CD1	LEU (295		45.279	91.235	94.831	1.00 25.3	
MOTA	8876	CD2	LEU (295		45.272	92.690	96.830	1.00 26.8	
ATOM	8880	С	LEU (295		44.077	89.103	99.232	1.00 23.8	
ATOM	8881	0	LEU (44.241	87.900	99.255	1.00 23.5	
ATOM	8882	N	GLY (43.014	89.692	99.766	1.00 23.8	
ATOM	8884	CA	GLY (41.932	88.918	100.359	1.00 24.2	
ATOM	8887	C	GLY (41.176	88.180	99.282	1.00 24.6	
MOTA	8888	0	GLY (41.317	88.516	98.141	1.00 25.2	
MOTA	8889	N	ARG C			40.382	87.178	99.616	1.00 25.2	9.
ATOM ATOM	8891 8893	CA	ARG C			39.701	86.402	98.580	1.00 25.9	
ATOM	8896	CB CG	ARG C			38.886	85.236	99.167	1.00 26.9	6
ATOM	8899	CD	ARG (38.658	84.012	98.216	1.00 30.6	
ATOM	8902	NE	ARG C			38.116 37.400	82.739	98.985	1.00 36.4	
ATOM	8904	CZ	ARG C			36.145	81.748	98.153	1.00 40.4	4
ATOM	8905		ARG C			35.423	81.884 82.984	97.675 97.920	1.00 43.0	
ATOM	8908		ARG C			35.607	80.911	96.939	1.00 43.8	
ATOM	8911	С		297	•	38.793	87.275	97.737	1.00 43.40 1.00 25.20	<i>)</i>
MOTA	8912	0	ARG C			38.711	87.058	96.533	1.00 25.49	
MOTA	8913	N	GLU C	298		38.109	88.252	98.332	1.00 24.3	
ATOM	8915	CA	GLU C			37.149	89.043	97.548	1.00 23.70	
MOTA	8917	CB	GLU C			36.478	90.111	98.404	1.00 23.99	
ATOM	8920	CG	GLU C			35.483	89.554	99.418	1.00 26.24	
ATOM	8923	CD	GLU C			36.128	89.176	100.739	1.00 29.32	
ATOM ATOM	8924		GLU C			37.249	89.667	100.996	1.00 30.46	5
ATOM	8925 8926	OE2 C	GLU C			35.521	88.387	101.518	1.00 31.60)
ATOM	8927	Ö	GLU C			37.843	89.675	96.329	1.00 22.40	
ATOM	8928	N	ASP C			37.306 39.059	89.686	95.224	1.00 21.30	
ATOM	8930	CA	ASP C			39.857	90.158 90.796	96.551	1.00 21.45	5
ATOM	8932	СВ		299		40.911	91.725	95.517 96.130	1.00 21.01	
ATOM	8935	CG	ASP C			40.315	93.056	96.599	1.00 20.70 1.00 21.37	,
ATOM	8936	OD1	ASP C			39.244	93.430	96.077	1.00 21.01	,
ATOM	8937	OD2	ASP C	299		40.827	93.789	97.487	1.00 22.23	
MOTA	8938		ASP C			40.497	89.803	94.561	1.00 20.83	, 1
ATOM	8939	0	ASP C	299		40.613	90.085	93.372	1.00 21.04	ĺ
ATOM	8940		GLN C			40.904	88.648	95.055	1.00 20.50)
ATOM	8942		GLN C			41.388	87.596	94.176	1.00 20.66	
ATOM	8944		GLN C			41.731	86.315	94.970	1.00 20.16	
ATOM .	8947 8950	CG	GLN C	300		42.991	86.449	95.870	1.00 18.84	
ATOM	8951	CD	GLN C	300		43.195	85.243	96.745	1.00 16.77	•
ATOM	8952		GLN C			43.030	84.136	96.271	1.00 18.45	, .
ATOM	8955		GLN C			43.543	85.442	98.014	1.00 13.14	
ATOM	8956		GLN C			40.331 40.639	87.313 87.268	93.094	1.00 21.42	
ATOM	8957		ILE C			39.090	87.163	91.886 93.540	1.00 21.43	
MOTA	8959		ILE C			37.971	86.851	92.662	1.00 21.90	
ATOM	8961		ILE C			36.708	86.448	93.504	1.00 22.51 1.00 22.67	
ATOM	8963	CG1	ILE C	301		36.953	85.082	94.166	1.00 22.67	
ATOM	8966	CD1	ILE C	301		36.086	84.819	95.338	1.00 22.78	
ATOM	8970		ILE C			35.434	86.413	92.646	1.00 21.69	
ATOM	8974	С	ILE C	301		37.654	87.973	91.670	1.00 22.92	

ATOM 8976 N ALC 3001 37.496 87.704 90.483 1.00 23.46 ATOM 8978 N ALC 302 37.597 89.2136 1.00 23.46 ATOM 8980 CB ALA C 302 37.597 89.2136 1.00 23.74 ATOM 8984 C ALA C 302 37.138 91.667 92.071 1.00 23.62 ATOM 8984 C ALA C 302 38.993 91.525 90.165 1.00 24.10 ATOM 8986 N LEU C 303 38.933 90.525 90.165 1.00 24.10 ATOM 8986 N LEU C 303 39.664 90.517 90.589 1.00 24.48 ATOM 8998 CA LEU C 303 39.664 90.517 90.589 1.00 24.40 ATOM 8990 CB LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CD LEU C 303 42.128 90.542 90.432 1.00 23.92 ATOM 8993 CG LEU C 303 42.148 91.835 91.629 10.00 24.40 ATOM 8995 CD1 LEU C 303 42.148 91.835 91.698 1.00 24.50 ATOM 8995 CD2 LEU C 303 42.84 91.835 91.698 1.00 24.50 ATOM 9003 C LEU C 303 40.764 89.707 88.593 1.00 24.94 ATOM 9003 C LEU C 303 40.764 89.757 88.704 10.0 24.83 ATOM 9005 N LEU C 304 40.659 89.7137 88.007 1.00 24.94 ATOM 9001 C LEU C 304 40.659 87.137 88.007 1.00 25.46 ATOM 9012 CG LEU C 304 40.659 87.137 88.007 1.00 25.46 ATOM 9014 CD1 LEU C 304 40.659 87.137 88.007 1.00 25.58 ATOM 9016 CD2 LEU C 304 40.659 87.137 88.007 1.00 25.58 ATOM 9022 C LEU C 304 42.003 85.320 89.130 1.00 24.91 ATOM 9016 CD2 LEU C 304 42.003 85.320 89.130 1.00 27.18 ATOM 9022 C LEU C 304 42.003 85.320 89.130 1.00 27.18 ATOM 9024 N LYS C 305 38.818 87.596 87.777 1.00 25.82 ATOM 9024 N LYS C 305 38.818 87.696 87.761 1.00 25.64 ATOM 9031 C C LEU C 304 39.221 87.195 88.029 1.00 27.72 ATOM 9030 C LEU C 304 39.221 87.195 87.177 1.00 25.82 ATOM 9031 C C LEU C 304 39.221 87.195 87.177 1.00 25.82 ATOM 9040 C LEU C 304 39.221 87.795 88.097 1.00 24.93 ATOM 9051 C C LEU C 304 39.221 87.955 88.091 1.00 27.18 ATOM 9052 C LEU C 304 39.221 87.955 88.091 1.00 27.18 ATOM 9054 C A LYS C 305 38.818 88.281 87.155 88.091 1.00 27.18 ATOM 9056 C C LYS C 305 38.818 88.281 87.155 87.177 1.00 25.82 ATOM 9057 C C LEU C 304 39.224 88.795 88.291 1.00 22.72 ATOM 9058 C C LYS C 305 38.818 88.923 89.418 1.00 24.69 ATOM 9050 C C B LEU C 304 39.248 88.933 89.418 1.00 24.69 ATOM 9050 C C B LEU C 304 39.248 88.934 88.291 1.00 24.55 ATOM 9050												
ATOM 8976 N ALA C 302 37.567 89.213 92.136 1.00 23.44 ATOM 8980 CB ALA C 302 37.138 91.667 92.071 1.00 23.62 ATOM 8984 C ALA C 302 38.939 90.552 89.1657 1.00 24.17 ATOM 8985 O ALA C 302 38.939 90.552 90.165 1.00 24.17 ATOM 8986 N LEU C 303 39.664 90.517 90.589 10.00 24.48 ATOM 8986 CA LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 42.128 90.542 90.432 1.00 23.92 ATOM 8993 CG LEU C 303 42.128 90.542 90.432 1.00 24.45 ATOM 8990 CB LEU C 303 42.148 91.805 91.252 1.00 24.25 ATOM 8995 CD1 LEU C 303 42.148 91.805 91.252 1.00 24.25 ATOM 8995 CD2 LEU C 303 42.648 93.517 91.602 44.50 ATOM 8996 CD2 LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9003 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9004 O LEU C 303 40.794 89.757 87.144 1.00 25.28 ATOM 9007 CA LEU C 304 40.659 87.137 88.007 1.00 26.09 ATOM 9012 CG LEU C 304 40.659 87.137 88.007 1.00 26.09 ATOM 9012 CG LEU C 304 40.659 87.137 88.007 1.00 26.09 ATOM 9012 CG LEU C 304 41.990 83.863 89.418 1.00 227.18 ATOM 9014 CD1 LEU C 304 41.990 83.863 89.418 1.00 227.18 ATOM 9012 CG LEU C 304 42.003 83.818 87.157 88.704 1.00 227.18 ATOM 9018 CD2 LEU C 304 41.990 83.863 89.418 1.00 227.18 ATOM 9022 C LEU C 304 39.281 87.155 87.177 1.00 25.58 ATOM 9022 C LEU C 304 39.281 87.155 87.177 1.00 25.58 ATOM 9023 C LEU C 304 39.281 87.155 87.177 1.00 25.58 ATOM 9024 N LYS C 305 36.981 87.155 87.177 1.00 25.64 ATOM 9031 CG LYS C 305 36.981 87.155 87.177 1.00 25.64 ATOM 9031 CG LYS C 305 33.818 88.629 87.765 1.00 29.72 ATOM 9034 CD LYS C 305 33.818 88.629 87.765 1.00 29.72 ATOM 9037 CE LYS C 305 33.818 88.629 87.765 1.00 29.75 ATOM 9036 CB ALA C 306 37.767 89.81 87.155 87.005 1.00 26.29 ATOM 9037 CE LYS C 305 33.818 88.629 87.765 1.00 24.45 93.404 93.94 9	МОТА	8975	0	ILE	С	301		37.496	87.704	90.483	1.00 23.46	0
ATOM 8978 CA ALA C 302 37.297 90.358 91.248 1.00 23.74 ATOM 8984 C ALA C 302 37.138 91.667 92.071 1.00 23.62 ATOM 8985 C ALA C 302 38.993 90.525 90.165 1.00 24.17 ATOM 8986 N LEU C 303 39.664 90.517 90.589 1.00 24.48 ATOM 8986 N LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 42.128 90.542 90.432 1.00 23.92 ATOM 8993 CG LEU C 303 42.128 90.542 90.432 1.00 24.25 ATOM 8995 CD1 LEU C 303 42.128 90.542 90.432 1.00 24.55 ATOM 8995 CD2 LEU C 303 42.128 90.542 90.432 1.00 24.55 ATOM 9003 C LEU C 303 42.082 93.091 90.497 1.00 24.83 ATOM 9003 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9003 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9005 N LEU C 304 40.563 88.216 88.999 1.00 25.46 ATOM 9007 CA LEU C 304 40.563 88.216 88.999 1.00 25.46 ATOM 9010 CB LEU C 304 40.563 88.216 88.999 1.00 25.46 ATOM 9012 CG LEU C 304 42.003 85.320 89.130 1.00 25.46 ATOM 9014 CD1 LEU C 304 41.990 83.663 89.130 1.00 25.46 ATOM 9014 CD1 LEU C 304 42.003 85.320 89.130 1.00 25.46 ATOM 9014 CD1 LEU C 304 41.990 83.663 89.130 1.00 27.18 ATOM 9012 CG LEU C 304 42.003 85.320 89.130 1.00 27.18 ATOM 9022 C LEU C 304 39.221 87.195 87.177 1.00 26.51 ATOM 9023 O LEU C 304 39.221 87.995 88.029 1.00 29.72 ATOM 9024 N LYS C 305 36.918 87.195 87.197 1.00 25.82 ATOM 9024 N LYS C 305 36.918 87.195 87.097 11.00 25.64 ATOM 9024 CN LYS C 305 36.918 87.195 87.097 11.00 25.64 ATOM 9024 CN LYS C 305 36.818 87.696 87.761 1.00 25.62 ATOM 9040 CD LYS C 305 33.308 88.363 89.481 1.00 25.64 ATOM 9050 CB ALA C 306 37.767 89.761 80.00 34.41 ATOM 9050 CB ALA C 306 37.767 89.761 1.00 26.512 ATOM 9040 CD LYS C 305 30.803 88.363 88.364 88.302 1.00 34.41 ATOM 9050 CB ALA C 306 37.767 89.761 85.997 11.00 24.53 ATOM 9050 CB ALA C 306 37.767 89.761 85.997 11.00 24.53 ATOM 9050 CB SER C 307 41.913 88.207 88.797 11.00 24.53 ATOM 9050 CB SER C 307 41.913 88.207 88.379 11.00 24.53 ATOM 9050 CB SER C 307 41.913 88.207 88.379 11.00 24.53 ATOM 9050 CB SER C 307 41.913 88.307 88.319 11.00 22.51 ATOM 9050 CB SE										92.136		N
ATOM 8984 C ALA C 302 38.393 90.525 90.165 1.00 24.17 ATOM 8985 O ALA C 302 38.090 90.652 88.972 1.00 24.10 ATOM 8986 N LEU C 303 39.664 90.517 90.589 1.00 24.40 ATOM 8986 N LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 42.128 90.542 90.432 1.00 23.92 ATOM 8991 CG LEU C 303 42.128 90.542 90.432 1.00 24.40 ATOM 8993 CG LEU C 303 42.148 91.805 91.252 1.00 24.25 ATOM 8995 CD1 LEU C 303 42.149 91.805 91.252 1.00 24.25 ATOM 8995 CD2 LEU C 303 42.764 89.470 88.593 1.00 24.50 ATOM 9003 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9004 O LEU C 303 40.794 89.757 87.414 1.00 25.28 ATOM 9005 N LEU C 304 40.683 88.216 88.999 1.00 25.46 ATOM 9007 CA LEU C 304 40.559 87.137 88.007 1.00 26.09 ATOM 9012 CG LEU C 304 41.90 83.863 88.216 88.991 1.00 24.78 ATOM 9012 CG LEU C 304 41.90 83.853 89.418 1.00 22.718 ATOM 9012 CG LEU C 304 41.90 83.853 89.418 1.00 22.718 ATOM 9018 CD2 LEU C 304 41.90 83.863 89.418 1.00 22.718 ATOM 9018 CD2 LEU C 304 41.90 83.863 89.418 1.00 22.718 ATOM 9018 CD2 LEU C 304 41.90 83.863 89.418 1.00 22.718 ATOM 9018 CD2 LEU C 304 41.90 83.863 89.418 1.00 22.718 ATOM 9018 CD2 LEU C 304 41.90 83.863 89.418 1.00 22.718 ATOM 9018 CD2 LEU C 304 43.012 85.629 88.029 1.00 27.18 ATOM 9024 N LYS C 305 36.991 87.715 87.177 1.00 25.58 ATOM 9025 C LEU C 304 39.221 87.195 87.177 1.00 25.58 ATOM 9026 CA LYS C 305 36.991 87.715 87.005 1.00 26.09 ATOM 9037 CE LYS C 305 36.991 87.715 87.005 1.00 25.58 ATOM 9040 N LYS C 305 36.991 87.715 87.005 1.00 25.58 ATOM 9050 C B LYS C 305 31.994 88.662 87.761 1.00 25.564 ATOM 9054 C LYS C 305 37.192 88.603 87.891 1.00 24.53 ATOM 9056 N SER C 307 41.307 89.510 83.991 1.00 24.53 ATOM 9057 C E LYS C 305 37.904 89.767 88.700 1.00 26.29 ATOM 9050 C B LYS C 305 37.904 89.767 88.700 1.00 24.53 ATOM 9050 C B SER C 307 41.307 89.510 83.991 1.00 24.53 ATOM 9050 C B SER C 307 41.307 89.510 83.991 1.00 24.53 ATOM 9050 C B SER C 307 41.913 88.913 81.91 1.00 24.53 ATOM 9050 C C E LYS C 305 37.162 88.993 87.911 1.00 24.53 ATOM 9050 C C E LYS								37.297		91.248	1.00 23.74	С
ATOM 8985 O ALA C 302 38.993 90.525 90.165 1.00 24.17 ATOM 8986 N LEU C 303 39.664 90.517 90.589 1.00 24.48 ATOM 8986 N LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8991 CD LEU C 303 42.128 90.542 90.432 1.00 23.92 ATOM 8995 CD1 LEU C 303 42.128 90.542 90.432 1.00 24.50 ATOM 8995 CD1 LEU C 303 42.128 90.542 90.432 1.00 24.50 ATOM 8995 CD1 LEU C 303 42.04 91.835 91.698 1.00 24.50 ATOM 8995 CD1 LEU C 303 42.04 91.835 91.698 1.00 24.50 ATOM 9003 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9003 C LEU C 304 40.683 88.216 88.999 1.00 24.94 ATOM 9005 N LEU C 304 40.683 88.216 88.999 1.00 25.46 ATOM 9007 CA LEU C 304 40.559 87.137 88.007 1.00 26.51 ATOM 9012 CG LEU C 304 40.559 87.137 88.007 1.00 26.51 ATOM 9012 CG LEU C 304 41.90 83.863 89.418 1.00 28.09 ATOM 9012 CC LEU C 304 41.90 83.863 89.418 1.00 28.09 ATOM 9018 CD2 LEU C 304 41.90 83.863 89.418 1.00 28.09 ATOM 9028 CB LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9020 C LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9021 CX LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9022 C LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9024 N LYS C 305 36.991 87.195 87.177 1.00 25.64 ATOM 9031 CG LYS C 305 36.991 87.195 87.177 1.00 25.64 ATOM 9034 CD LYS C 305 36.991 87.195 87.177 1.00 25.64 ATOM 9037 CE LYS C 305 33.1944 88.662 87.7601 1.00 26.59 ATOM 9034 CD LYS C 305 33.818 88.662 87.7601 1.00 25.64 ATOM 9040 NZ LYS C 305 33.88 88.653 88.246 1.00 34.41 ATOM 9040 NZ LYS C 305 36.991 87.992										92.071		С
ATOM 8886 N LEU C 303 38.090 90.652 88.972 1.00 24.10 ATOM 8886 CA LEU C 303 39.664 90.517 90.589 1.00 24.48 ATOM 8990 CB LEU C 303 42.128 90.542 90.432 1.00 23.49 ATOM 8991 CG LEU C 303 42.148 91.805 91.252 1.00 24.25 ATOM 8995 CD1 LEU C 303 42.144 91.805 91.252 1.00 24.25 ATOM 8995 CD2 LEU C 303 42.082 93.091 90.497 1.00 24.48 ATOM 9003 C LEU C 303 42.082 93.091 90.497 1.00 24.83 ATOM 9004 0 LEU C 303 40.764 89.470 88.593 1.00 24.54 ATOM 9005 N LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9007 CA LEU C 304 40.659 87.137 88.007 1.00 25.28 ATOM 9007 CA LEU C 304 40.659 87.137 88.007 1.00 26.09 ATOM 9012 CG LEU C 304 42.003 85.320 89.130 1.00 27.18 ATOM 9012 CG LEU C 304 41.90 83.863 89.418 1.00 26.51 ATOM 9014 CD1 LEU C 304 41.90 83.863 89.418 1.00 22.71 ATOM 9012 CG LEU C 304 42.003 85.320 89.130 1.00 27.18 ATOM 9012 CG LEU C 304 41.90 83.863 89.418 1.00 28.09 ATOM 9012 CG LEU C 304 41.90 83.863 89.418 1.00 22.71 ATOM 9014 CD1 LEU C 304 43.012 85.629 88.029 1.00 27.18 ATOM 9018 CD2 LEU C 304 39.241 87.195 87.177 1.00 25.58 ATOM 9022 C LEU C 304 39.242 86.775 86.013 1.00 27.18 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.58 ATOM 9024 N LYS C 305 36.991 87.715 87.005 1.00 25.58 ATOM 9026 CA LYS C 305 35.813 88.208 89.418 1.00 28.09 ATOM 9031 CD LYS C 305 33.449 87.892 87.892 1.00 26.29 ATOM 9031 CD LYS C 305 33.308 88.364 88.382 1.00 26.29 ATOM 9031 CD LYS C 305 33.308 88.866 87.761 1.00 25.58 ATOM 9040 C LYS C 305 33.308 88.662 87.760 1.00 25.58 ATOM 9040 C LYS C 305 33.498 88.662 87.760 1.00 25.16 ATOM 9041 CD LYS C 305 33.898 88.662 87.760 1.00 25.16 ATOM 9040 C LYS C 305 36.991 87.795 87.997 1.00 24.893 ATOM 9050 CB ALA C 306 38.914 99.419 83.971 1.00 24.40 ATOM 9050 CB CS CS C 307 41.307 89.510 83.797 1.00 24.60 ATOM 9050 CB CS CS C 307 41.913 88.210 83.797 1.00 24.60 ATOM 9050 CB CS CS C 307 41.913 88.210 83.797 1.00 24.60 ATOM 9050 CB CS CS C 307 41.913 88.210 83.797 1.00 24.60 ATOM 9050 CB CS CS C 307 41.913 88.220 89.914 81.00 22.95 ATOM 9050 CB CS CS C 307 41.913 88.250 88.798 1.00 22.95 ATOM 9								38.393			1.00 24.17	С
ATOM 8986 N LEU C 303 39.664 90.517 90.589 1.00 24.48 ATOM 8998 CA LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 42.128 90.542 90.432 1.00 23.92 ATOM 8993 CG LEU C 303 42.144 91.805 91.252 1.00 24.25 ATOM 8993 CG LEU C 303 42.144 91.805 91.252 1.00 24.25 ATOM 8995 CD1 LEU C 303 42.828 93.019 90.497 1.00 24.50 ATOM 8999 CD2 LEU C 303 42.828 93.019 90.497 1.00 24.83 ATOM 9003 LEU C 303 40.764 89.470 88.593 1.00 24.83 ATOM 9003 LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9005 N LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9012 CG LEU C 304 40.622 85.767 88.704 1.00 26.609 ATOM 9012 CG LEU C 304 40.622 85.767 88.704 1.00 26.51 ATOM 9014 CD1 LEU C 304 41.880 83.863 89.418 1.00 27.18 ATOM 9014 CD1 LEU C 304 41.880 83.863 89.418 1.00 27.18 ATOM 9018 CD2 LEU C 304 43.012 85.629 88.029 1.00 29.72 ATOM 9022 C LEU C 304 39.248 87.755 87.717 1.00 25.82 ATOM 9023 O LEU C 304 39.248 87.755 87.777 1.00 25.58 ATOM 9024 N LYS C 305 36.981 87.715 87.005 1.00 25.564 ATOM 9031 CG LYS C 305 36.981 87.715 87.005 1.00 25.64 ATOM 9034 CD LYS C 305 36.981 87.715 87.005 1.00 26.89 ATOM 9034 CD LYS C 305 33.894 88.662 87.500 1.00 25.64 ATOM 9034 CD LYS C 305 33.984 88.662 87.500 1.00 36.56 ATOM 9040 N LYS C 305 33.894 88.662 87.500 1.00 35.16 ATOM 9040 N LYS C 305 30.896 88.214 84.648 1.00 23.92 ATOM 9056 N SER C 307 41.307 89.761 85.964 1.00 24.83 ATOM 9056 CB ALAR C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9056 CB ALAR C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9056 CB ALAR C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9056 CB ESE C 307 41.307 89.510 83.797 1.00 24.69 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.69 ATOM 9075 CG LTR C 308 39.520 84.866 84.471 1.00 22.453 ATOM 9066 CB SER C 307 41.307 89.510 83.797 1.00 24.55 ATOM 9075 CG LTR C 308 39.520 84.866 84.471 1.00 22.475 ATOM 9080 CB LEU C 309 37.762 89.761 85.522 1.00 22.161 ATOM 9090 CB CA LIC C 309 37.762 89.761 85.522 1.00 22.151 ATOM 908											1.00 24.10	0
ATOM 8980 CB LEU C 303 40.801 90.572 89.664 1.00 24.40 ATOM 8990 CB LEU C 303 42.128 90.542 90.432 1.00 23.92 ATOM 8995 CD1 LEU C 303 42.414 91.805 91.252 1.00 24.55 ATOM 8995 CD1 LEU C 303 42.414 91.805 91.252 1.00 24.50 ATOM 9003 C LEU C 303 42.082 93.091 90.497 1.00 24.83 ATOM 9004 O LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9005 N LEU C 304 40.683 88.216 88.989 1.00 25.26 ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9009 CB LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9012 CG LEU C 304 40.683 88.216 88.989 1.00 26.09 ATOM 9014 CD1 LEU C 304 41.980 83.863 89.418 1.00 26.09 ATOM 9014 CD1 LEU C 304 41.980 83.863 89.418 1.00 27.18 ATOM 9022 C LEU C 304 43.921 87.195 88.007 1.00 26.09 ATOM 9023 O LEU C 304 39.221 87.195 88.027 1.00 27.18 ATOM 9024 N LYS C 305 36.918 87.195 87.177 1.00 25.58 ATOM 9026 CA LYS C 305 36.918 87.195 87.107 1.00 25.58 ATOM 9034 CD LYS C 305 36.918 87.195 87.005 1.00 25.64 ATOM 9031 CG LYS C 305 36.918 87.195 87.005 1.00 26.29 ATOM 9034 CD LYS C 305 36.813 88.203 87.881 1.00 28.58 ATOM 9034 CD LYS C 305 36.818 88.203 88.204 1.00 25.564 ATOM 9034 CD LYS C 305 36.818 88.203 87.881 1.00 26.629 ATOM 9040 NZ LYS C 305 36.808 88.353 88.246 80.75 1.00 36.566 ATOM 9040 NZ LYS C 305 36.808 88.353 88.246 80.75 1.00 36.566 ATOM 9040 NZ LYS C 305 36.808 88.354 88.382 1.00 36.566 ATOM 9040 NZ LYS C 305 36.808 88.354 88.382 1.00 24.69 ATOM 9050 CB ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9075 C THR C 308 39.520 84.866 84.471 1.00 22.453 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.69 ATOM 9070 CT THR C 308 40.264 86.650 87.500 1.00 34.41 ATOM 9080 C A LIE C 309 37.472 88.338 88.662 87.500 1.00 32.453 ATOM 9080 C THR C 308 39.520 84.866 88.271											1.00 24.48	N
ATOM 8990 CB LEU C 303											1.00 24.40	С
ATOM 9995 CD1 LEU C 303												С
ATOM 8999 CD2 LEU C 303 43.847 91.835 91.698 1.00 24.50 ATOM 8999 CD2 LEU C 303 40.764 89.470 88.593 1.00 24.83 ATOM 9004 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9005 R LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9009 CB LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9010 CB LEU C 304 40.683 88.216 88.989 1.00 26.51 ATOM 9010 CB LEU C 304 40.682 85.767 88.007 1.00 26.51 ATOM 9011 CD1 LEU C 304 41.890 83.863 89.418 1.00 24.94 ATOM 9012 CG LEU C 304 43.012 85.629 88.029 1.00 27.18 ATOM 9018 CD2 LEU C 304 43.012 85.629 88.029 1.00 28.09 ATOM 9022 C LEU C 304 39.242 86.775 86.013 1.00 25.64 ATOM 9023 O LEU C 304 39.242 86.775 86.013 1.00 25.64 ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 25.64 ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 25.64 ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9031 CG LYS C 305 33.308 88.638 89.27 1.00 25.64 ATOM 9031 CG LYS C 305 33.308 88.638 89.812 1.00 26.84 ATOM 9031 CG LYS C 305 33.308 88.638 89.812 1.00 36.56 ATOM 9034 CD LYS C 305 33.308 88.633 88.266 1.00 34.41 ATOM 9037 CE LYS C 305 37.182 88.593 85.752 1.00 34.41 ATOM 9037 CE LYS C 305 37.182 88.593 85.752 1.00 34.41 ATOM 9034 CD LYS C 305 37.182 88.593 85.752 1.00 34.41 ATOM 9046 N ALA C 306 37.904 90.763 84.933 1.00 24.83 ATOM 9046 C ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9050 C BALA C 306 39.054 90.419 83.971 1.00 24.53 ATOM 9056 C SER C 307 40.132 89.891 84.536 1.00 24.53 ATOM 9056 C SER C 307 41.142 88.334 82.868 1.00 24.53 ATOM 9056 C SER C 307 41.142 88.334 82.868 1.00 24.53 ATOM 9067 N THR C 308 40.216 87.428 83.179 1.00 24.53 ATOM 9060 CB SER C 307 41.142 88.334 82.868 1.00 24.15 ATOM 9070 C THR C 308 39.520 86.954 80.0592 1.00 22.90 ATOM 9070 C THR C 308 39.520 86.954 80.0592 1.00 22.90 ATOM 9080 C THR C 308 39.520 86.954 80.0592 1.00 22.90 ATOM 9080 C THR C 308 39.520 86.954 80.0592 1.00 22.90 ATOM 9080 C THR C 308 39.520 86.954 80.0592 1.00 22.16 ATOM 9090 C THR C 308 39.520 86.954 80.0592 1.00 22.90 ATOM 9080 C THR C										91.252	1.00 24.25	C
ATOM 9093 CD LEU C 303 42.082 93.091 90.497 1.00 24.83 ATOM 9003 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9005 N LEU C 304 40.683 88.216 88.989 1.00 25.28 ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 25.28 ATOM 9009 CB LEU C 304 40.652 85.767 88.704 1.00 26.09 ATOM 9012 CG LEU C 304 41.980 83.863 89.418 1.00 27.18 ATOM 9014 CD1 LEU C 304 41.980 83.863 89.418 1.00 27.18 ATOM 9018 CD2 LEU C 304 43.92 85.767 88.704 1.00 27.18 ATOM 9022 C LEU C 304 39.281 87.195 87.177 1.00 25.58 ATOM 9023 O LEU C 304 39.281 87.195 87.177 1.00 25.58 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.58 ATOM 9026 CA LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 33.308 88.353 88.248 1.00 26.84 ATOM 9034 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9040 N LYS C 305 37.182 88.593 85.752 1.00 36.56 ATOM 9040 N LYS C 305 37.182 88.593 85.752 1.00 36.56 ATOM 9046 C ALS C 305 37.182 88.593 85.752 1.00 36.56 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 23.92 ATOM 9056 C B ALA C 306 38.914 87.96 83.97 1.00 24.53 ATOM 9056 C SER C 307 41.307 89.761 85.964 1.00 24.53 ATOM 9056 C SER C 307 41.142 88.334 82.215 1.00 24.53 ATOM 9056 C SER C 307 41.142 88.334 82.216 84.471 1.00 24.53 ATOM 9056 C SER C 307 41.142 88.334 82.216 81.93 1.11 1.00 24.53 ATOM 9056 C SER C 307 41.142 88.334 82.266 1.00 24.53 ATOM 9056 C SER C 307 41.142 88.334 82.266 1.00 24.53 ATOM 9066 C SER C 307 41.142 88.334 82.266 1.00 24.53 ATOM 9067 C THR C 308 40.137 89.761 83.797 1.00 24.53 ATOM 9068 O THR C 308 40.137 89.891 80.550 1.00 24.53 ATOM 9069 C THR C 308 40.137 89.891 80.550 1.00 24.53 ATOM 9060 C SER C 307 41.142 88.334 82.266 1.00 24.53 ATOM 9060 C SER C 307 41.142 88.334 82.266 1.00 24.53 ATOM 9060 C SER C 307 41.142 88.334 82.266 1.00 24.53 ATOM 9060 C SER C 307 41.142 88.334 82.266 1.00 24.53 ATOM 9070 C THR C 308 40.137 89.208 86.595 80.190 1.00 24.53 ATOM 9070 C THR C 308 40.137 89.209 86.595 80.190 24.50 ATOM 9080 C THR C 308 40.153 86.662 79.166 1.00 24.59 ATOM 9080									91.835			C
ATOM 9004 C LEU C 303 40.764 89.470 88.593 1.00 24.94 ATOM 9005 N LEU C 303 40.794 89.757 87.414 1.00 25.28 ATOM 9005 N LEU C 304 40.683 88.216 88.989 1.00 25.46 ATOM 9007 CA LEU C 304 40.683 88.216 88.989 1.00 26.51 ATOM 9012 C LEU C 304 40.622 85.767 88.007 1.00 26.51 ATOM 9012 C LEU C 304 42.003 85.320 89.130 1.00 27.18 ATOM 9014 CD1 LEU C 304 41.980 83.863 89.418 1.00 28.09 ATOM 9018 CD2 LEU C 304 43.012 85.629 88.029 1.00 28.09 ATOM 9018 CD2 LEU C 304 43.012 85.629 88.029 1.00 28.09 ATOM 9022 C LEU C 304 39.224 86.775 86.013 1.00 25.64 ATOM 9024 N LYS C 305 36.881 87.715 87.005 1.00 25.62 ATOM 9026 CA LYS C 305 35.813 88.203 87.881 1.00 25.64 ATOM 9026 CA LYS C 305 35.813 88.203 87.881 1.00 25.64 ATOM 9031 C LYS C 305 35.813 88.203 87.881 1.00 26.29 ATOM 9034 C LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9034 C LYS C 305 33.308 88.353 88.246 1.00 35.16 ATOM 9040 NZ LYS C 305 33.808 88.353 88.246 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 35.16 ATOM 9046 C LYS C 305 37.804 88.93 85.752 1.00 25.12 ATOM 9046 C ALA C 306 37.767 89.761 85.994 81.90 24.69 ATOM 9055 N ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9056 N SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9056 N SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9056 N SER C 307 41.307 89.510 83.797 1.00 24.63 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.69 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.15 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.15 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.15 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.15 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.15 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.15 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.15 ATOM 9070 CTHR C 308 39.183 83.857 82.474 1.00 22.59 ATOM 9080 C THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 39.183											1.00 24.83	C
ATOM											1.00 24.94	C
ATOM 9007 CA LEUC 304 40.683 88.216 88.989 1.00 25.46 ATOM 9007 CA LEUC 304 40.559 87.137 88.007 1.00 26.09 ATOM 9009 CB LEUC 304 40.622 85.767 88.704 1.00 26.51 ATOM 9014 CDL LEUC 304 42.003 85.320 89.130 1.00 27.18 ATOM 9018 CDZ LEUC 304 41.980 83.863 89.418 1.00 28.09 ATOM 9018 CDZ LEUC 304 43.012 85.629 88.029 1.00 29.72 ATOM 9022 C LEUC 304 39.221 87.195 87.177 10.0 25.82 ATOM 9023 C LEUC 304 39.221 87.195 87.177 10.0 25.82 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.64 ATOM 9026 CA LYS C 305 36.991 87.715 87.761 10.00 25.64 ATOM 9027 C LYS C 305 34.439 87.891 1.00 26.84 ATOM 9031 CG LYS C 305 34.439 87.891 1.00 26.84 ATOM 9031 CG LYS C 305 33.308 88.353 88.246 1.00 36.10 ATOM 9030 C LYS C 305 33.308 88.353 88.246 1.00 36.56 ATOM 9031 C LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 36.866 88.214 84.648 1.00 24.91 ATOM 9045 C LYS C 305 36.866 88.214 84.648 1.00 24.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.53 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9050 C B ALA C 306 37.904 90.763 84.933 1.00 24.65 ATOM 9056 C SER C 307 41.307 89.510 83.777 1.00 24.55 ATOM 9060 CB SER C 307 41.307 89.510 83.779 1.00 24.53 ATOM 9060 CB SER C 307 41.307 89.510 83.779 1.00 24.53 ATOM 9060 CB SER C 307 41.142 88.334 82.868 1.00 24.97 ATOM 9060 CB SER C 307 41.142 88.334 82.868 1.00 24.97 ATOM 9060 CB SER C 307 41.142 88.334 82.868 1.00 24.50 ATOM 9070 CG THR C 308 39.152 85.214 84.766 1.00 24.97 ATOM 9060 CB THR C 308 39.152 85.214 81.767 1.00 24.50 ATOM 9070 CT THR C 308 40.216 87.428 83.179 1.00 24.50 ATOM 9070 CT THR C 308 40.914 85.513 80.355 1.00 22.16 ATOM 9080 C THR C 308 39.168 88.521 83.179 1.00 24.50 ATOM 9090 CDI TLE C 309 37.416 87.631 88.210 83.179 1.00 22.57 ATOM 9080 C THR C 308 39.108 88.662 87.401 77.344 1.00 22.57 ATOM 9080 C THR C 308 39.108 88.662 79.166 1.00 21.86 ATOM 9090 CDI TLE C 309 37.416 87.631 77.44 1.00 22.57 ATOM 9090 CDI TLE C 309 37.416 87.631 77.44 1.00 22.57 ATOM 9090 CDI TLE C 309 3								40.794		87.414	1.00 25.28	0
ATOM 9009 CB LEUC 304 40.559 87.137 88.007 1.00 26.09 ATOM 9010 CG LEUC 304 40.622 85.767 88.704 1.00 26.51 ATOM 9012 CG LEUC 304 41.980 83.863 89.130 1.00 27.18 ATOM 9018 CDZ LEUC 304 41.980 83.863 89.130 1.00 29.72 ATOM 9028 C LEUC 304 39.281 87.195 87.177 1.00 25.82 ATOM 9023 O LEUC 304 39.281 87.195 87.177 1.00 25.82 ATOM 9023 O LEUC 304 39.281 87.195 87.177 1.00 25.82 ATOM 9026 CA LYS C 305 38.218 87.696 87.761 1.00 26.29 ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 26.29 ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 31.984 88.662 87.500 1.00 34.41 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 34.41 ATOM 9034 CD LYS C 305 31.984 88.662 87.500 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9046 N ALA C 306 37.904 90.763 84.933 1.00 24.83 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.83 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.83 ATOM 9050 CB ALA C 306 37.904 90.612 82.759 1.00 24.53 ATOM 9050 CB ALA C 306 39.054 90.419 83.971 1.00 24.53 ATOM 9065 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9066 C SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9070 CB THR C 308 39.182 85.214 83.140 1.00 22.95 ATOM 9070 CB THR C 308 39.182 85.214 83.140 1.00 22.95 ATOM 9070 CB THR C 308 39.183 83.877 82.474 1.00 22.95 ATOM 9070 CB THR C 308 40.914 85.513 80.355 1.00 22.16 ATOM 9070 CB THR C 308 39.182 85.214 83.140 1.00 22.97 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9060 CB THR C 308 39.182 85.214 83.140 1.00 22.95 ATOM 9070 CDT THR C 308 39.183 83.878 82.474 1.00 22.57 ATOM 9080 CDT THR C 308 39.183 83.878 82.274 1.00 22.95 ATOM 9080 CDT THR C										88.989	1.00 25.46	
ATOM 9012 CG LEU C 304 40.622 85.767 88.704 1.00 26.51								40.559	87.137	88.007	1.00 26.09	C
ATOM 9014 CD1 LEU C 304 41.980 85.320 89.130 1.00 27.18 ATOM 9018 CD2 LEU C 304 41.980 83.863 89.418 1.00 28.09 ATOM 9022 C LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9023 O LEU C 304 39.281 87.195 87.177 1.00 25.582 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.64 ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 25.64 ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 37.182 88.593 85.752 1.00 25.12 ATOM 9040 NZ LYS C 305 36.856 88.214 84.648 1.00 24.83 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.53 ATOM 9050 CB ALA C 306 39.054 90.419 83.971 1.00 24.53 ATOM 9050 CB ALA C 306 39.054 90.419 83.971 1.00 24.53 ATOM 9050 CB SER C 307 40.132 89.891 84.536 1.00 24.53 ATOM 9060 CB SER C 307 41.307 89.510 83.791 1.00 24.53 ATOM 9060 CB SER C 307 41.307 89.510 83.791 1.00 24.53 ATOM 9060 CB SER C 307 41.307 89.510 83.791 1.00 24.53 ATOM 9060 CB SER C 307 41.307 89.510 83.791 1.00 24.53 ATOM 9060 CB SER C 307 41.913 88.210 83.791 1.00 24.53 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9060 CB SER C 307 41.913 88.210 83.791 1.00 24.53 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 22.57 ATOM 9060 CB THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9060 CB THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9060 CB THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9073 CGI THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 39.208 80.685 79.214 1.00 20.99 ATOM 9090 C CI I								40.622	85.767	88.704	1.00 26.51	С
ATOM 9018 CD2 LEU C 304 41.980 83.863 89.418 1.00 28.09 ATOM 9022 C LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9023 O LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.64 ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 26.29 ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.29 ATOM 9031 CG LYS C 305 33.308 88.353 88.246 1.00 30.10 ATOM 9037 CE LYS C 305 33.308 88.353 88.246 1.00 30.10 ATOM 9030 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9046 C LYS C 305 36.868 88.214 84.648 1.00 23.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9050 CB ALA C 306 38.904 90.463 83.911 1.00 24.53 ATOM 9050 C ALA C 306 38.904 90.475 ATOM 9050 CB ALA C 306 38.904 90.419 83.971 1.00 24.53 ATOM 9050 C ALA C 306 38.904 90.419 83.971 1.00 24.53 ATOM 9050 C SER C 307 40.132 89.891 83.971 1.00 24.53 ATOM 9060 CB SER C 307 40.132 89.891 83.971 1.00 24.53 ATOM 9060 CB SER C 307 40.132 89.891 84.536 1.00 24.97 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.50 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.50 ATOM 9060 CB SER C 307 41.142 88.334 82.866 1.00 24.11 ATOM 9060 CB SER C 307 41.913 88.210 83.719 1.00 24.50 ATOM 9067 N THR C 308 40.216 87.428 83.179 1.00 24.50 ATOM 9067 N THR C 308 40.216 87.428 83.179 1.00 22.90 ATOM 9070 C THR C 308 40.216 87.428 83.179 1.00 22.16 ATOM 9071 CB THR C 308 40.153 86.169 81.076 1.00 22.11 ATOM 9073 CG THR C 308 40.153 86.169 81.076 1.00 22.11 ATOM 9070 C THR C 308 40.153 86.169 81.076 1.00 22.15 ATOM 9087 CG THR C 308 40.153 86.625 79.214 1.00 22.57 ATOM 9087 CG THR C 308 40.153 86.625 79.214 1.00 22.57 ATOM 9088 CA THR C 308 40.153 86.625 79.214 1.00 22.57 ATOM 9087 CG THR C 308 40.153 86.625 79.214 1.00 22.57 ATOM 9089 C THE C 309 37.712 86.625 76.858 1.00 21.25 ATOM 9080 C THR C 308 39.183 88.662 79.166 1.00 21.86 ATOM 9087 CG THR C 308 39.183 88.662 79.16								42.003	85.320		1.00 27.18	С
ATOM 9018 CD2 LEU C 304 43.012 85.629 88.029 1.00 29.72 ATOM 9022 C LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9023 O LEU C 304 39.281 87.195 87.177 1.00 25.64 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.64 ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 26.29 ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 36.856 88.214 84.648 1.00 23.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9048 CA ALA C 306 37.767 89.761 85.964 1.00 24.69 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.53 ATOM 9055 N ALA C 306 38.142 92.079 85.587 1.00 24.53 ATOM 9056 N SER C 307 40.132 89.891 84.536 1.00 24.75 ATOM 9056 C SER C 307 41.307 89.510 83.797 1.00 24.53 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.60 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.97 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9060 CB FR C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9060 CB FR C 308 39.182 85.214 83.140 1.00 24.50 ATOM 9071 CB THR C 308 39.182 85.214 83.140 1.00 22.95 ATOM 9073 CGI THR C 308 39.182 85.214 83.140 1.00 22.16 ATOM 9070 CT THR C 308 39.183 88.214 80.592 1.00 21.45 ATOM 9080 N THR C 308 39.183 88.204 80.592 1.00 21.45 ATOM 9081 N TLE C 309 37.712 87.774 78.822 1.00 22.57 ATOM 9080 CD THR C 308 39.183 88.204 80.592 1.00 21.45 ATOM 9080 CD THR C 308 39.183 88.204 80.592 1.00 21.45 ATOM 9080 CD THR C 308 39.183 88.806 79.164 1.00 22.55 ATOM 9080 CD THR C 308 39.183 88.692 79.214 1.00 22.55 ATOM 9080 CD THR C 308 39.183 88.692 79.214 1.00 22.55 ATOM 9080 CD THR C 308 39.183 88.692 79.214 1.00 22.55 ATOM 9090 CD THE C 309 37.712 86.250 76.858 1.00 21.25 ATOM 9080 CD THR C 308 39.183 88.682 79.166 1.00 21.86 ATOM 9090 CD THE C 3			CD1					41.980	83.863		1.00 28.09	
ATOM 9022 C LEU C 304 39.281 87.195 87.177 1.00 25.82 ATOM 9023 O LEU C 304 39.242 86.775 86.013 1.00 25.58 ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.64 ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 25.64 ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9034 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9040 NZ LYS C 305 30.803 88.353 88.246 1.00 35.16 ATOM 9044 C LYS C 305 30.803 88.364 88.382 1.00 25.12 ATOM 9045 O LYS C 305 36.856 88.214 84.648 1.00 23.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 23.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9055 C ALA C 306 38.42 20.079 85.587 1.00 24.75 ATOM 9055 O ALA C 306 38.947 90.612 82.759 1.00 24.75 ATOM 9055 O ALA C 306 38.947 90.612 82.759 1.00 24.75 ATOM 9056 CB ALA C 306 38.947 90.612 82.759 1.00 24.75 ATOM 9056 CB SER C 307 41.307 89.510 83.797 1.00 24.60 ATOM 9056 CB SER C 307 41.307 89.510 83.797 1.00 24.60 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.60 ATOM 9066 CB SER C 307 41.142 88.834 82.868 1.00 24.11 ATOM 9066 CB SER C 307 41.142 88.834 82.868 1.00 24.11 ATOM 9066 CB SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9067 N THR C 308 39.122 81.904 83.977 1.00 24.50 ATOM 9067 N THR C 308 39.122 85.214 83.140 1.00 22.90 ATOM 9071 CB THR C 308 39.122 85.214 83.147 1.00 22.57 ATOM 9069 CA THR C 308 39.122 85.214 83.147 1.00 22.57 ATOM 9079 C THR C 308 39.128 85.214 83.179 1.00 22.11 ATOM 9081 N LEC 309 37.416 85.513 80.355 1.00 22.16 ATOM 9087 CG2 THR C 308 39.128 85.214 83.147 1.00 22.57 ATOM 9087 CG1 LLE C 309 37.416 87.631 77.344 1.00 22.57 ATOM 9087 CG1 LLE C 309 37.472 88.562 79.166 1.00 21.40 ATOM 9088 CB LLE C 309 37.472 88.6250 76.6858 1.00 21.40 ATOM 9089 CD LLE C 309 37.472 88.6250 76.6858 1.00 21.66 ATOM 9089 CD LLE C 309 37.472 88.6250 76.6858 1.00 21.66 ATOM 9099 CD LLE C 309 37.472 88.6250 76.6858 1.00 21.66 ATOM 9099 CD LLE			CD2	LEU	С	304		43.012	85.629	88.029	1.00 29.72	C
ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.58 ATOM 9026 CB LYS C 305 36.981 87.715 87.005 1.00 26.29 ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9034 CD LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9037 CE LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 34.41 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9044 C LYS C 305 37.182 88.593 85.752 1.00 25.12 ATOM 9045 N ALA C 306 37.767 89.761 85.964 1.00 23.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9050 CB ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.53 ATOM 9055 N SER C 307 40.132 89.891 84.536 1.00 24.53 ATOM 9056 N SER C 307 40.132 89.891 84.536 1.00 24.75 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.53 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.57 ATOM 9060 CB SER C 307 41.142 88.334 82.868 1.00 24.19 ATOM 9060 CB SER C 307 41.1913 88.210 81.904 1.00 24.50 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9060 CB SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9067 N THR C 308 39.182 85.214 83.140 1.00 22.11 ATOM 9067 CG2 THR C 308 39.182 85.214 83.140 1.00 22.57 ATOM 9071 CB THR C 308 39.182 85.214 83.140 1.00 22.57 ATOM 9081 N ILE C 309 37.416 86.954 80.592 1.00 21.40 ATOM 9080 CT HR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9081 N ILE C 309 37.416 86.954 79.214 1.00 21.50 ATOM 9087 CG1 ILE C 309 37.762 89.254 79.214 1.00 21.55 ATOM 9080 CT ILE C 309 37.416 87.631 77.344 1.00 22.57 ATOM 9080 CDI ILE C 309 37.416 87.631 77.344 1.00 21.61 ATOM 9098 C ILE C 309 37.416 87.631 77.344 1.00 22.57 ATOM 9099 CT ILE C 309 37.416 87.631 77.344 1.00 21.61 ATOM 9090 CDI ILE C 309 37.416 89.254 79.166 1.00 21.86 ATOM 9090 CDI ILE C 309 37.416 89.254 79.214 1.00 21.66 ATOM 9090 CDI IL						304		39.281	87.195	87.177	1.00 25.82	
ATOM 9024 N LYS C 305 38.218 87.696 87.761 1.00 25.64 ATOM 9026 CA LYS C 305 36.991 87.715 87.005 1.00 26.29 ATOM 9031 CG LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9034 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.353 88.246 1.00 36.56 ATOM 9044 C LYS C 305 37.182 88.593 85.752 1.00 25.12 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 23.92 ATOM 9048 CA ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9050 CB ALA C 306 37.904 90.763 84.933 1.00 24.69 ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.53 ATOM 9056 N SER C 307 40.132 89.891 82.759 1.00 24.53 ATOM 9058 CA SER C 307 40.132 89.891 84.536 1.00 24.19 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.50 ATOM 9060 CB SER C 307 41.307 89.510 83.797 1.00 24.50 ATOM 9060 CB SER C 307 41.314 90.243 85.182 1.00 29.53 ATOM 9066 C SER C 307 41.314 90.243 85.182 1.00 29.53 ATOM 9067 N THR C 308 40.216 88.210 81.904 1.00 24.51 ATOM 9068 C THR C 308 40.216 87.428 83.140 1.00 24.51 ATOM 9069 CA THR C 308 40.216 87.428 83.140 1.00 24.51 ATOM 9073 CG1 THC 308 40.216 87.428 83.140 1.00 22.16 ATOM 9073 CG1 THC 308 40.216 87.428 83.140 1.00 22.16 ATOM 9080 C THR C 308 40.216 87.428 83.140 1.00 22.16 ATOM 9081 N ILE C 309 39.182 85.214 83.140 1.00 22.15 ATOM 9083 CA ILE C 309 39.208 86.954 80.592 1.00 21.99 ATOM 9080 C THR C 308 40.914 85.513 80.355 1.00 21.99 ATOM 9081 N ILE C 309 37.712 87.774 78.822 1.00 20.90 ATOM 9081 C ILE C 309 37.712 87.774 78.822 1.00 20.90 ATOM 9082 CA ILE C 309 37.712 87.774 78.822 1.00 20.90 ATOM 9080 C ILE C 309 37.762 89.254 79.214 1.00 22.57 ATOM 9090 C ILE C 309 37.762 89.254 79.214 1.00 22.57 ATOM 9090 C ILE C 309 37.762 89.255 79.447 1.00 22.57 ATOM 9090 C ILE C 309 37.762 89.256 76.858 1.00 21.61 ATOM 9090 C ILE C 309 37.762 89.254 79.214 1.00 21.86 ATOM 9090 C ILE C 309 37.762 89.254 79.214 1.00 22.57 ATOM 9090 C ILE C 309 37.762 89.254 79.244 1.00 22.57			0	LEU	С	304						
ATOM 9026 CA LYS C 305 36.981 87.715 87.005 1.00 26.29 ATOM 9028 CB LYS C 305 35.813 88.203 87.881 1.00 26.84 ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9034 CD LYS C 305 33.308 88.353 88.246 1.00 34.11 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 25.12 ATOM 9045 O LYS C 305 36.856 88.214 84.648 1.00 23.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9048 CA ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.53 ATOM 9055 O ALA C 306 38.947 90.419 83.971 1.00 24.53 ATOM 9055 O ALA C 306 38.947 90.419 83.971 1.00 24.53 ATOM 9055 O ALA C 306 38.947 90.612 82.759 1.00 24.53 ATOM 9058 CA SER C 307 40.132 89.891 84.536 1.00 24.97 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9065 C SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9065 C SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9065 C SER C 307 41.307 89.510 83.797 1.00 24.50 ATOM 9067 N THR C 308 40.216 87.428 83.149 1.00 22.90 ATOM 9067 N THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9073 OG1 THR C 308 39.183 88.210 81.904 1.00 22.16 ATOM 9073 OG1 THR C 308 39.183 88.210 81.904 1.00 22.11 ATOM 9070 OT1 CB THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9071 CB THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9071 CB THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9073 OG1 THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9070 OT1 CB THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9080 O THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9080 O THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9080 O THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9080 O THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9081 N ILE C 309 37.712 87.774 78.822 1.00 20.90 ATOM 9080 O THR C 308 40.264 86.505 76.858 1.00 22.17 ATOM 9080 O THR C 308 40.264 86.505 76.858 1.00 22.17 ATOM 9080 O THR C 308 40.264 86.505 76.858 1.00 22.18 ATOM 9080 O THR C 308 40.264 86.505 76.858 1.00 22.15 ATOM 9080 O THR C 3			N	LYS	С	305		38.218	87.696			
ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9034 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 37.182 88.593 85.752 1.00 25.12 ATOM 9045 C LYS C 305 37.182 88.593 85.752 1.00 25.12 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.83 ATOM 9048 CA ALA C 306 37.767 89.761 85.964 1.00 24.69 ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.69 ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.53 ATOM 9055 N ALA C 306 38.947 90.612 82.759 1.00 24.75 ATOM 9056 N SER C 307 40.132 89.891 84.536 1.00 24.19 ATOM 9058 CA SER C 307 40.132 89.891 84.536 1.00 24.19 ATOM 9050 CB SER C 307 41.307 89.510 83.797 1.00 24.60 ATOM 9060 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9065 C SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9066 O SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9066 O SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9066 C SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9066 C SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9067 N THR C 308 40.216 87.428 83.179 1.00 22.90 ATOM 9067 CB THR C 308 40.216 86.105 82.578 1.00 22.16 ATOM 9073 OG1 THR C 308 40.216 86.105 82.578 1.00 22.16 ATOM 9070 CTHR C 308 39.182 85.182 1.00 22.11 ATOM 9073 OG1 THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9083 CA ILE C 309 39.203 87.048 79.154 1.00 22.57 ATOM 9081 N ILE C 309 39.203 87.048 79.154 1.00 22.57 ATOM 9081 N ILE C 309 39.203 87.048 79.154 1.00 22.57 ATOM 9085 CB ILE C 309 37.712 87.747 78.822 1.00 21.92 ATOM 9085 CB ILE C 309 37.712 87.747 78.822 1.00 21.92 ATOM 9080 CD1 ILE C 309 37.762 89.254 79.214 1.00 20.666 ATOM 9099 CD1 ILE C 309 37.762 89.254 79.214 1.00 20.666 ATOM 9099 CD1 ILE C 309 37.762 89.255 79.166 1.00 21.86 ATOM 9099 CD1 ILE C 309 37.762 89.255 79.166 1.00 21.86 ATOM 9090 CD1 ILE C 309 40.563 87.401 77.336 1.00 22.57 ATOM 9090 CD1 ILE C 309 40.563 87.401 77.336 1.00 22.57 ATOM 9090 CD1 ILE C 309 40.563 87.401 77.336 1.00 22.57 ATOM 9090 CD1 ILE C 3	ATOM	9026	CA	LYS	С	305		36.981				C
ATOM 9031 CG LYS C 305 34.439 87.892 87.295 1.00 30.10 ATOM 9034 CD LYS C 305 33.308 88.353 88.246 1.00 34.41 ATOM 9037 CE LYS C 305 31.984 88.662 87.500 1.00 35.16 ATOM 9040 NZ LYS C 305 30.803 88.364 88.382 1.00 36.56 ATOM 9044 C LYS C 305 37.182 88.593 85.752 1.00 25.12 ATOM 9045 O LYS C 305 36.856 88.214 84.648 1.00 23.92 ATOM 9046 N ALA C 306 37.767 89.761 85.964 1.00 24.69 ATOM 9048 CA ALA C 306 37.767 89.761 85.964 1.00 24.69 ATOM 9050 CB ALA C 306 38.142 92.079 85.587 1.00 24.53 ATOM 9055 O ALA C 306 38.947 90.419 83.971 1.00 24.53 ATOM 9055 N SER C 307 40.132 89.891 84.536 1.00 24.60 ATOM 9055 CA SER C 307 40.132 89.891 84.536 1.00 24.60 ATOM 9055 CB SER C 307 42.416 89.097 84.766 1.00 24.97 ATOM 9065 C SER C 307 41.307 89.510 83.797 1.00 24.51 ATOM 9065 C SER C 307 41.307 89.510 83.797 1.00 24.50 ATOM 9065 C SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9066 O SER C 307 41.142 88.334 82.868 1.00 24.11 ATOM 9066 O SER C 307 41.913 88.210 81.904 1.00 24.50 ATOM 9071 CB THR C 308 40.216 87.428 83.179 1.00 22.90 ATOM 9071 CB THR C 308 39.182 85.214 83.140 1.00 22.16 ATOM 9073 OG1 THR C 308 39.182 85.214 83.140 1.00 22.11 ATOM 9075 CG THR C 308 39.182 85.214 83.140 1.00 22.11 ATOM 9075 CG THR C 308 39.182 85.214 83.140 1.00 22.11 ATOM 9083 CA ILE C 309 39.183 83.857 82.474 1.00 22.57 ATOM 9080 C THR C 308 40.216 87.428 83.140 1.00 22.11 ATOM 9083 CA ILE C 309 39.023 87.048 79.154 1.00 21.25 ATOM 9081 N ILE C 309 39.023 87.048 79.154 1.00 21.25 ATOM 9083 CA ILE C 309 39.023 87.048 79.154 1.00 21.25 ATOM 9085 CB ILE C 309 37.472 86.250 76.858 1.00 21.40 ATOM 9087 CG1 ILE C 309 37.472 86.250 76.858 1.00 21.61 ATOM 9099 CD1 ILE C 309 37.472 86.250 76.858 1.00 21.61 ATOM 9099 CD1 ILE C 309 37.472 88.250 79.244 1.00 22.57 ATOM 9099 CD1 ILE C 309 37.472 86.250 76.858 1.00 21.61 ATOM 9099 CD1 ILE C 309 37.472 86.250 76.858 1.00 21.61 ATOM 9099 CD1 ILE C 309 37.472 88.250 79.447 1.00 22.57 ATOM 9099 CD1 ILE C 309 37.472 88.250 79.447 1.00 22.57 ATOM 9099 C ILE C 309 37.472 88.250 79.447 1.00 22.57 ATOM 9099 C ILE	ATOM	9028	CB	LYS	С	305		35.813				С
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ATOM 9067 N THR C 308 40.216 87.428 83.179 1.00 22.90 ATOM 9069 CA THR C 308 40.264 86.105 82.578 1.00 22.16 ATOM 9071 CB THR C 308 39.182 85.214 83.140 1.00 22.11 ATOM 9073 OG1 THR C 308 39.520 84.866 84.471 1.00 22.43 ATOM 9075 CG2 THR C 308 39.183 83.857 82.474 1.00 22.57 ATOM 9079 C THR C 308 40.153 86.169 81.076 1.00 21.89 ATOM 9080 O THR C 308 40.914 85.513 80.355 1.00 21.92 ATOM 9081 N ILE C 309 39.208 86.954 80.592 1.00 21.40 ATOM 9083 CA ILE C 309 39.023 87.048 79.154 1.00 21.25 ATOM 9085 CB ILE C 309 37.712 87.774 78.822 1.00 20.90 ATOM 9087 CG1 ILE C 309 37.416 87.631 77.344 1.00 20.93 ATOM 9090 CD1 ILE C 309 37.416 87.631 77.344 1.00 20.93 ATOM 9094 CG2 ILE C 309 37.762 89.254 79.214 1.00 20.66 ATOM 9098 C ILE C 309 40.213 87.720 78.474 1.00 21.81 ATOM 9099 O ILE C 309 40.563 87.401 77.336 1.00 22.57 ATOM 9100 N GLU C 310 40.818 88.682 79.166 1.00 21.86 ATOM 9102 CA GLU C 310 41.905 89.450 78.600 1.00 20.98 ATOM 9104 CB GLU C 310 42.221 90.682 79.447 1.00 20.83												
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ATOM 9104 CB GLU C 310 42.221 90.682 79.447 1.00 20.83							•				1.00 20.9	8 C
											1.00 20.8	3 C

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9110 9111 9112 9113 9114 9115 9117 9119 9121 9128 9132 9133 9134 9136	OE2 C O N CA CB CG1 CD1	GLU GLU GLU ILE ILE ILE ILE ILE ILE	0000000000000	310 310 311 311 311 311 311		41.296 42.476 40.343 43.058 43.712 43.290 44.471 44.759 45.275 45.275 45.275 45.278 43.045 42.738	92.901 93.127 93.668 88.523 88.509 87.699 86.830 86.187 87.194 86.773 84.973 85.782 85.423 85.319 84.365	80.275 80.564 80.573 78.491 77.469 79.500 79.474 80.846 81.797 83.279 80.742 78.404 77.777 78.164 77.068	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	20.86 21.98 19.88 20.63 21.17 20.65 20.84 21.13 21.03 21.11 21.03 21.65 20.81 20.33		000000000000000000000000000000000000000
ATOM ATOM	9138 9141	CB CG			312 312	•	41.282	83.934	77.084	1.00	20.38	•	. C
ATOM	9144	SD			312		39.130	83.010 82.820	78.244 78.407		22.03 23.29		C
ATOM	9145	CE			312		39.092	81.695	79.650		26.02		S C
ATOM	9149	C			312		43.004	84.975	75.707		20.48		Č
ATOM .	9150 9151	0	MET	C	312		43.417	84.277	74.774		20.46		0
ATOM	9151	N CA	LEU		313 313		42.761 43.016	86.288 87.002	75.588		20.32		N
ATOM	9155	CB			313		42.349	88.349	74.349 74.395		19.95 19.65		C
MOTA	9158	CG	LEU	С	313		40.838	88.317	74.231		20.60		C
ATOM	9160	CD1			313		40.323	89.657	74.601		22.49		Ċ
ATOM ATOM	9164 9168	CD2	LEU				40.421	88.043	72.809		22.11		С
ATOM	9169	С 0			313 313		44.517 44.970	87.114 86.986	74.062 72.910		20.48		, C
ATOM	9170	N			314		45.285	87.350	72.910		19.41 21.36		0
MOTA	9172	CA	LEU	С	314		46.742	87.304	75.031		22.27		N C
ATOM	9174	CB			314		47.378	87.756	76.341		22.10		Č
ATOM ATOM	9177 9179	CG CD1			314		48.051	89.097	76.593		22.13		. С
ATOM	9183		LEU LEU				47.813 47.573	90.060 89.669	75.558		23.29		C
ATOM	9187	C			314		47.219	85.871	77.902 74.675		23.63		C
ATOM	9188	0	LEU	С	314		47.987	85.708	73.731		23.62		Ö
ATOM	9189	N			315		46.781	84.842	75.403		23.38		N
ATOM ATOM	9191 9193	CA CB	GLU		315 315		47.194	83.441	75.088		23.93		С
ATOM	9196	CG			315		46.679 47.382	82.410 82.504	76.120 77.476		24.28 27.22		C
MOTA	9199	CD			315	•	48.870	82.108	77.415		30.37		C
ATOM	9200		GLU	С	315		49.186	81.092	76.775		32.39		ŏ
ATOM ATOM	9201 9202	OE2					49.728	82.806	77.994		31.87		0
ATOM	9203	C O	GLU GLU				46.745 47.485	83.017 82.353	73.700		23.07		C
ATOM	9204	N			316		45.539	83.428	73.000 73.307		23.02 22.38		O N
MOTA	9206	CA	THR	С	316		45.020	83.212	71.946		21.67		И С
ATOM	9208	CB			316		43.589	83.855	71.857		21.88		č
ATOM ATOM	9210 9212	OG1			316		42.615	83.046	72.539		20.43		0
ATOM	9216	CG2 C			316		43.091 45.982	83.941 83.859	70.394		22.37		C
MOTA	9217	ō			316		46.480	83.209	69.976		20.90 19.95		CO
ATOM	9218	N	ALA	С	317		46.228	85.148	71.048		20.05		Ŋ
ATOM	9220	CA .	ALA				47.092	85.868	70.168	1.00	20.00		C
ATOM ATOM	9222 9226 .	CB C	ALA ALA				47.249	87.275	70.678		20.45		С
ATOM	9227	0	ALA				48.438 48.931	85.175 84.875	70.092 69.034		20.26		C
MOTA	9228	N	ARG	С	318		49.031	84.887	71.230		19.99 21.12		O N
ATOM	9230	CA	ARG	Ç	318		50.324	84.186	71.273		21.70		C
ATOM	9232	CB	ARG	С	318		50.663	83.913	72.735		22.23		č

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	ATOM	9235	CG	ARG	С	318	51.943	83.198	73.021	1.00 24	.76	С
	ATOM	9238	CD	ARG	С	318	51.980	82.735	74.441	1.00 29		c
	ATOM	9241	NE	ARG		318	53.328	82.767	74.979	1.00 34		N
	ATOM	9243	CZ	ARG	С	318	53.625	83.006	76.263	1.00 38		C
	ATOM	9244		ARG			52.668	83.248	77.171	1.00 39		N
	ATOM	9247		ARG		318	54.896	82.994	76.643	1.00 39		N
	ATOM	9250	C	ARG			50.366	82.877	70.481	1.00 20		C
	ATOM	9251	0	ARG			51.422	82.466	70.056	1.00 20	. 67	Õ
	ATOM	9252	N	ARG		319	49.225	82.218	70.325	1.00 21		N
	ATOM	9254	CA	ARG		319	49.137	80.935	69.613	1.00 21		С
	ATOM	9256	CB	ARG		319	48.157	80.009	70.347	1.00 22		С
	MOTA	9259	CG	ARG		319	48.761	79.186	71.485	1.00 25		С
	MOTA	9262	CD	ARG			47.747	78.810	72.591	1.00 30		С
	ATOM ATOM	9265 9267	NE CZ	ARG ARG			48.453	78.230	73.736	1.00 34		N
	ATOM	9268				319	49.208	78.920	74.610	1.00 36		С
	ATOM	9200	NH1	ARG ARG		319 319	49.361	80.244	74.516	1.00 35		N
	ATOM	9274	C	ARG			49.813 48.661	78.268 81.085	75.594 68 167	1.00 36		N
	ATOM	9275	0	ARG			48.460	80.095	68.167 67.474	1.00 20 1.00 19		C
	ATOM	9276	N	TYR		320	48.473	82.329	67.738	1.00 19		0
	ATOM	9278	CA	TYR			48.007	82.639	66.402	1.00 19		И
	ATOM	9280	СВ	TYR		320	47.636	84.135	66.256	1.00 19		C
	ATOM	9283	CG	TYR		320	47.295	84.550	64.831	1.00 19		C
	ATOM	9284		TYR			46.083	84.202	64.253	1.00 17		C
	MOTA	9286	CE1	TYR		320	45.786	84.575	62.960	1.00 17		c
	ATOM	9288	CZ	TYR	С	320	46.711	85.296	62.216	1.00 17		c
	ATOM	9289	OH	TYR	С		46.429	85.661	60.914	1.00 19		ŏ
	ATOM	9291		TYR	С	320	47.910	85.644	62.766	1.00 16		Č
	ATOM	9293		TYR		320	48.196	85.271	64.064	1.00 17	.01	C
	ATOM	9295	С	TYR			49.054	82.281	65.377	1.00 18		Č
	ATOM	9296	0	TYR			50.175	82.733	65.450	1.00 18	.89	0
	ATOM	9297	N	ASN		321	48.659	81.474	64.407	1.00 18		N
	ATOM	9299	CA	ASN			49.521	81.088	63.325	1.00 18		С
	ATOM	9301	CB	ASN			49.367	79.594	63.116	1.00 19		C
	ATOM	9304	CG OD1	ASN		321	50.275	79.065	62.041	1.00 19		C
	ATOM ATOM	9305 9306		ASN ASN			51.307	78.491	62.336	1.00 23		0
	ATOM ATOM	9309	NDZ	ASN		321	49.897 49.134	79.252	60.794	1.00 18		И
	ATOM	9310	o	ASN			49.134	81.863 81.690	62.063 61.541	1.00 18 1.00 18		C
	ATOM	9311	N	HIS		322	50.039	82.715	61.567	1.00 18		N
	ATOM	9313	CA	HIS			49.694	83.563	60.428	1.00 17		C
	ATOM	9315	CB	HIS		322	50.420	84.917	60.431	1.00 17		c
	ATOM	9318	CG	HIS		322	49.822	85.919	59.480	1.00 17		C
	ATOM	9319		HIS			48.561	86.452	59.653	1.00 18		И
	ATOM	9321		HIS			48.288	87.275	58.656	1.00 17		Ċ
	MOTA	9323	NE2	HIS	Ç	322	49.318	87.283	57.829	1.00 17		N
	ATOM	9325		HIS			50.290	86.441	58.318	1.00 18		C
	ATOM	9327	С	HIS			49.871	82.858	59.102	1.00 16		С
	ATOM	9328	0	HIS			49.287	83.293	58.124	1.00 16	.50	O
	ATOM	9329	N	GLU	C	323	50.631	81.765	59.047	1.00 16		N
	ATOM	9331	CA	GLU	C	323	50.675	80.947	57.814	1.00 15		С
	ATOM	9333	CB	GLU			51.686	79.810	57.935	1.00 16		С
	ATOM	9336	CG	GLU			51.782	78.979	56.657	1.00 18		С
	ATOM ATOM	9339	CD OF1	GLU			52.870	77.917	56.678	1.00 19		С
	ATOM ATOM	9340 9341	OE1	GLU GLU			53.586	77.808	57.690	1.00 20		0
	ATOM ATOM	9341	CE2	GLU			52.994	77.177 80.384	55.683	1.00 18		0
	ATOM	9343	0	GLU			49.284 48.955	80.384	57.421 56.247	1.00 15		C
	ATOM	9344	N	THR			48.483	80.055	58.431	1.00 13		0
	ATOM	9346	CA	THR			47.185	79.393	58.285	1.00 14 1.00 14		И
	ATOM	9348	CB	THR			47.160	78.062	59.140	1.00 14		C
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ATOM	9350	OG1 THR	C 324	47.434	78.329	60.540	1 00 14 6	
ATOM	9352		C 324	48.246	77.040	58.670	1.00 14.64	4
ATOM	9356		C 324 .	46.002	80.275	58.706	1.00 13.9	
ATOM	9357	O THR	C 324	44.857	79.920		1.00 14.25	5
ATOM	9358		C 325	46.303		58.490	1.00 13.30	
ATOM	9360	CA GLU	C 325	46.303	81.424	59.314	1.00 14.89	
ATOM	9362		C 325	45.313	82.384	59.849	1.00 14.59	
ATOM	9365		C 325	44.601	83.107	58.716	1.00 14.04	
ATOM	9368			45.546	84.001	57.941	1.00 12.44	1
ATOM	9369		C 325	44.904	84.690	56.756	1.00 11.07	7
ATOM			C 325	43.662	84.777	56.678	1.00 10.49	•
	9370		C 325	45.663	85.167	55.899	1.00 9.70)
ATOM	9371		C 325	44.348	81.710	60.820	1.00 15.35	
ATOM	9372	O GLU	C 325	43.140	81.847	60.734	1.00 15.10	
ATOM	9373	N CYS		44.942	80.990	61.760	1.00 16.63	
ATOM	9375		C 326	44.243	80.114	62.664	1.00 17.79	á
MOTA	9377		C 326	44.515	78.680	62.252	1.00 17.93	á
MOTA	9380	SG CYS		43.326	78.130	61.051	1.00 17.07	
ATOM	9381	C CYS	C 326	44.775	80.287	64.047	1.00 19.77	
MOTA	9382	O CYS		45.980	80.432	64.235	1.00 19.66	
ATOM	9383	N ILE	C 327		80.248	65.025	1.00 22.43	,
ATOM	9385	CA ILE	C 327	44.283	80.131	66.423	1.00 22.43	
ATOM	9387	CB ILE	C 327	43.214	80.733	67.310	1.00 24.49	: •
ATOM	9389	CG1 ILE	C 327	43.197	82.250	67.068	1.00 24.44	
ATOM	9392		C 327	41.889	82.845	67.350	1.00 25.51	1
MOTA	9396		C 327	43.473	80.370	68.786	1.00 25.51	
MOTA	9400	C ILE		44.547	78.676	66.782	1.00 25.12	
ATOM	9401		C 327	43.727	77.792	66.522	1.00 26.15	•
ATOM	9402	N THR	C 328	45.700	78.436	67.383	1.00 25.84	
ATOM	9404	CA THR	C 328	46.125	77.075	67.670	1.00 28.62	
ATOM	9406		C 328	47.472	76.849		1.00 30.85)
ATOM	9408	OG1 THR	C 328	47.390	77.153	67.056	1.00 30.89)
ATOM	.9410	CG2 THR	C 328	47.844	75.354	65.659	1.00 31.59)
ATOM	9414		C 328	46.170		67.117	1.00 32.19	
ATOM	9415	O THR		47.248	76.770 76.735	69.161	1.00 32.50	
ATOM	9416		329	44.985	76.733	69.753	1.00 32.90	
ATOM	9418		C 329	44.814	76.364	69.744	1.00 34.40	
ATOM	9420		329	43.352	75.806	71.136	1.00 35.56	
MOTA	9423		329	42.971	75.773	71.391	1.00 35.71	
ATOM	9424	CD1 PHE	329	42.570	76.962	72.846	1.00 37.29	
ATOM	9426	CE1 PHE	7 329	42.181	76.942	73.507	1.00 37.15	
ATOM	9428	CZ PHE		42.198	75.713	74.852	1.00 36.69	
ATOM	9430	CE2 PHE		42.591	74.497	75.564	1.00 38.22	
ATOM	9432	CD2 PHE	329	42.963		74.899	1.00 37.78	
ATOM	9434	C PHE C	7 329	45.677	74.542 74.915	73.552	1.00 37.96	
ATOM	9435	O PHE C	329			71.484	1.00 36.59	
ATOM	9436	N LEU C	330	46.287 45.742	74.893	72.570	1.00 37.17	
ATOM	9438	CA LEU C		46.641	73.920	70.582	1.00 37.22	
ATOM	9440	CB LEU C		45.912	72.740	70.750	1.00 37.98	
ATOM	9443	CG LEU C	330	46.350	71.602	71.491	1.00 38.39	
ATOM	9445	CD1 LEU C	330	46.032	71.300	72.931	1.00 40.08	
ATOM	9449	CD2 LEU C	330	47.845	69.817	73.265	1.00 41.39	
ATOM	9453	C LEU C			71.598	73.186	1.00 40.84	
	9454	O LEU C	330	47.203	72.192	69.425	1.00 37.69	
ATOM	9455	N LYS C		46.727	72.554	68.360	1.00 38.18	
ATOM	9457	CA LYS C		48.196	71.315	69.475	1.00 37.13	
ATOM	9459	CB LYS C		48.858	70.907	68.239	1.00 37.33	
ATOM	9462	CG LYS C		49.680	69.630	68.419	1.00 37.85	
ATOM	9465	CD LYS C		50.896	69.819	69.341	1.00 40.26	
ATOM	9468	CE LYS C		51.977	68.724	69.159	1.00 41.77	
ATOM	9471	NZ LYS C	. 331	53.197	69.011	70.047	1.00 42.34	
ATOM	9475	C LYS C	. 331	54.455	68.791	69.293	1.00 43.43	
		- 1110 (47.855	70.704	67.115	1.00 36.47	

ATOM	9476	0	LYS	С	331	47.883	71.427	66.110	1.00 37.1	LO		0
ATOM	9477				332	46.949	69.745	67.299	1.00 35.0			N
ATOM	9479	CA	ASP		332	45.984	69.368	66.254	1.00 33.5	52		С
ATOM	9481	CB	ASP			45.735	67.856	66.326	1.00 33.4	42		С
ATOM	9484	CG	ASP			46.732	67.060	65.491	1.00 34.0			С
ATOM	9485		ASP		332	47.472	67.662	64.683	1.00 34.	43		0
ATOM	9486		ASP			46.839	65.818	65.570	1.00 34.			0
ATOM	9487	C	ASP			44.637	70.143	66.278	1.00 32.	00		С
ATOM	9488	Ö	ASP			43.746	69.892	65.450	1.00 31.	91		0
ATOM	9489	N	PHE			44.494	71.074	67.220	1.00 29.			N
ATOM	9491	CA	PHE			43.245	71.783	67.422	1.00 28.	34		С
ATOM	9493	CB .	PHE		333	42.837	71.697	68.901	1.00 28.			С
ATOM	9496	CG	PHE			42.336	70.323	69.334	1.00 30.	95		С
ATOM	9497		PHE			43.156	69.199	69.239	1.00 33.	57		С
MOTA	9499		PHE		333	42.697	67.944	69.626	1.00 34.	89		С
ATOM	9501	CZ	PHE			41.402	67.795	70.120	1.00 34.	94		С
ATOM	9503		PHE			40.583	68.899	70.229	1.00 33.	86		C
ATOM	9505		PHE		333	41.049	70.160	69.847	1.00 32.	43		C
ATOM	9507	C	PHE			43.442	73.230	66.975	1.00 26.	25		С
ATOM	9508	ō	PHE			43.950	74.058	67.737	1.00 26.	49		0
ATOM	9509	N	THR		334	43.075	73.530	65.731	1.00 23.			N
ATOM	9511	CA	THR		334	43.211	74.886	65.189	1.00 22.	15		С
AŢOM	9513	CB	THR		334	44.198	74.916	64.022	1.00 22.	27		С
MOTA	9515	OG1			334	43.789	73.981	63.020	1.00 21.			0
ATOM	9517	CG2				45.565	74.443	64.465	1.00 22.	71		С
ATOM	9521	C	THR		334	41.886	75.436	64.726	1.00 20.	28		C
MOTA	9522	0			334	41.008	74.690	64.383	1.00 19.	63		0
ATOM	9523	N			335	41.756	76.747	64.698	1.00 18.			N
ATOM	9525	CA.	TYR		335	40.469	77.370	64.438	1.00 18.	55		С
ATOM	9527	CB			335	39.742	77.682	65.767	1.00 18.			C
ATOM	9530	CG			335	39.672	76.472	66.671	1.00 17.			С
ATOM	9531	CD1	TYR	С	335	40.650	76.239	67.630	1.00 16.			С
MOTA	9533	CE1	TYR	С	335	40.623	75.103	68.408	1.00 17.			С
MOTA	9535	CZ	TYR	С	335	39.599	74.180	68.254	1.00 18.			С
ATOM	9536	OH	TYR	С	335	39.563	73.050	69.046	1.00 20.			0
ATOM	9538	CE2			335	38.617	74.395	67.315	1.00 17.			С
ATOM	9540	CD2	TYR	С	335	38.663	75.536	66.524	1.00 17			C
MOTA	9542	С	TYR			40.662	78.638	63.589	1.00 18			C
ATOM	9543	0			335	41.312	79.595	64.018	1.00 17			0
MOTA	9544	N			336	40.128	78.605	62.367	1.00 18			N
ATOM	9546	CA	SER			40.004	79.782	61.510	1.00 17			C
ATOM	9548	CB	SER			39.716	79.335	60.101	1.00 17			C
ATOM	9551	OG	SER			38.417	78.800	60.047	1.00 15			0
ATOM	9553	С			336	38.858	80.707	61.946	1.00 17			C
ATOM	9554	0			336	38.074	80.379	62.836	1.00 16			0
ATOM	9555	N			337	38.754	81.862	61.287	1.00 18			И
ATOM	9557	CA			337	37.671	82.797	61.567	1.00 18			C
ATOM	9559	CB			337	.37.830	84.105	60.797	1.00 18			C
ATOM	9562	CG	LYS			38.992	84.958	61.264	1.00 18			C
MOTA	9565	CD			337	38.728	86.436	61.031	1.00 19			C
MOTA	9568	CE			337	38.523	86.799	59.561	1.00 19			N
ATOM	9571	NZ	LYS			38.656	88.274	59.301 61.216	1.00 18			C
MOTA	9575	C			337	36.357	82.134					Ö
ATOM	9576	0	LYS	Ö	337	35.384	82.253	61.955 60.096				И
ATOM	9577	N			338	36.338	81.416 80.655	59.694				C
ATOM	9579	CA			338	35.166		59.694				c
ATOM	9581	CB			338	35.441	79.845	57.153				c
ATOM	9584	CG			338	35.236		57.239				Ö
MOTA	9585	OD	LASP		2 2 2 2 2	34.782		56.024				ŏ
ATOM	9586		Z ASP	, (338	35.506 34.737		60.793				Č
MOTA	9587	С	ASE	. (338	34.131	13.141	00.793	1.00 20			
						 						

ATOM	·9588	0	ACD	~	338		33.544	70 506	61 000	
ATOM	9589	N						79.586	61.030	1.00 21.08
			ASP		339		35.707	79.097	61.461	1.00 20.65
ATOM	9591	CA			339		. 35.430	78.135	62.535	1.00 20.49
MOTA	9593	CB	ASP	С	339		36.723	77.485	63.041	1.00 19.99
ATOM	9596	CG	ASP		339		37.270	76.474	62.079	
ATOM	9597				339				62.079	1.00 18.52
ATOM	9598						36.475	75.796	61.393	1.00 15.97
			ASP				38.486	76.284	61.943	1.00 18.05
ATOM	9599	С			339		34.693	78.768	63.692	1.00 20.76
MOTA	9600	0	ASP	С	339		33.751	78.203	64.230	1.00 20.00
ATOM	9601	N	PHE	С	340	•	35.125	79.962	64.054	1.00 21.96
ATOM	9603	CA			340		34.440	80.719		
ATOM	9605	CB	PHE		340				65.076	1.00 22.95
ATOM	9608						35.176	82.005	65.421	1.00 23.07
		, CG	PHE		340		36.399	81.828	66.277	1.00 22.95
MOTA	9609			С	340		37.463	81.066	65.866	1.00 22.51
ATOM	9611	CE1	PHE	С	340		38.588	80.952	66.633	1.00 22.57
MOTA	9613	CZ	PHE	С	340	•	38.682	81.605	67.807	1.00 23.78
ATOM	9615	CE2	PHE	С	340		37.643	82.391	68.233	1.00 25.28
ATOM	9617	CD2			340		36.512	82.509		
ATOM	9619	C			340		33.045		67.463	1.00 24.52
ATOM	9620	õ						01.004	.64.569	1.00 23.67
			PHE				32.085	80.943	65.309	1.00 23.60 ·
ATOM .	9621	N	HIS				32.926	81.492	63.317	1.00 24.91
AŢOM	9623	CA	HIS		341		31.612	81.819	62.786	1.00 26.47
ATOM	9625	CB	HIS	С	341		31.638	82.334	61.337	1.00 26.86
MOTA	9628	CG	HIS	С	341		30.262	82.414	60.746	1.00 30.78
ATOM	9629		HIS	C	341		29.302	83.287	61.224	
MOTA	9631		HIS		341		28.168			1.00 33.90
ATOM	9633		HIS		341			83.091	60.568	1.00 36.37
ATOM	9635						28.347	82.102	59.702	1.00 36.36
			HIS		341		29.643	81.651	59.805	1.00 34.80
MOTA	9637	C .	HIS				30.619	80.641	62.894	1.00 26.47
ATOM	9638	0	HIS	С	341		29.454	80.848	63.254	1.00 26.40
MOTA	9639	N	ARG	С	342		31.084	79.429	62.605	1.00 26.78
ATOM	9641	CA	ARG	С	342		30.240	78.241	62.639	1.00 27.49
ATOM	9643	CB	ARG		342		30.930	77.068	61.967	1.00 27.93
ATOM	9646	CG	ARG		342		31.042	77.195		
ATOM	9649	CD	ARG				32.392		60.478	1.00 29.90
ATOM	9652	NE						76.757	59.973	1.00 33.11
			ARG		342		32.473	76.765	58.516	1.00 35.74
ATOM	9654	CZ	ARG		342		33.545	76.392	57.827	1.00 37.80
MOTA	9655		ARG				34.653	75.981	58.453	1.00 37.69
ATOM	9658	NH2	ARG	С	342		33.509	76.426	56.499	1.00 39.32
MOTA	9661	С	ARG	С	342		29.887	77.821	64.043	1.00 27.39
ATOM	9662	0	ARG	С	342		28.925	77.116	64.239	1.00 27.39
ATOM	9663	N	ALA		343		30.688	78.225	65.013	
ATOM	9665	CA	ALA				30.359	78.051		1.00 27.43
ATOM	9667	CB	ALA						66.416	1.00 27.24
ATOM	9671						31.608	78.221	67.263	1.00 27.10
		C	ALA				29.286	79.029	66.882	1.00 27.37
ATOM	9672	0	ALA				28.997	79.068	68.078	1.00 27.62
ATOM	9673	N	GLY	С	344		28.704	79.802	65.951	1.00 27.38
MOTA	9675	CA	GLY	С	344		27.653	80.784	66.234	1.00 27.23
ATOM	9678	С	GLY	С	344		28.108	82.172	66.731	1.00 26.99
ATOM	9679	0	GLY				27.284	82.969		
ATOM	9680	N	LEU						67.222	1.00 26.63
ATOM	9682	CA	LEU				29.401	82.470	66.611	1.00 26.29
			TEO	<u>ر</u> .	345		29.920	83.761	67.043	1.00 26.05
ATOM	9684	CB	LEU	Ü	345		31.392	83.660	67.508	1.00 26.01
MOTA	9687	CG	LEU				31.793	82.508	68.452	1.00 27.03
ATOM	9689		LEU				32.888	82.915	69.392	1.00 27.83
ATOM	9693	CD2	LEU				30.637	82.014	69.280	1.00 29.12
ATOM	9697	С	LEU				29.740	84.821	65.945	1.00 25.74
ATOM	9698	Ō	LEU				29.797	84.531		
ATOM	9699	N	GLN				29.483		64.753	1.00 24.32
ATOM	9701	CA	GLN				29.309	86.043	66.412	1.00 26.61
ATOM	9703	CB	GLN (87.257	65.615	1.00 27.29
-11 OF1	5,05	CD	GUM (_	340		28.979	88.441	66.520	1.00 27.75
			•							

MOTA	9706	CG GLN C 346	27 667	00 450			
ATOM	9709		27.667		67.274	1.00 30.06	
ATOM	9710		27.621	89.629	68.287	1.00 32.70	
MOTA	9711		26.604	90.312	68.389	1.00 36.00	
MOTA	9714	C CIN C 346	28.725	89.863	69.011	1.00 30.49	
ATOM	9715		30.599		64.955	1.00 27.40	
MOTA	9716		31.678	87.520	65.522	1.00 28.47	
MOTA	9718		30.494	88.319	63.809	1.00 26.94	
ATOM			31.661	88.882	63.154	1.00 26.52	
MOTA	9720		31.260	89.348	61.746	1.00 26.83	
MOTA	9722		30.781	90.818	61.735	1.00 27.09	
ATOM	9726		32.382	89.108	60.821	1:00 27.86	
ATOM	9730 9731		32.316	90.021	63.968	1.00 25.70	
MOTA	_	O VAL C 347	33.523	90.192	63.948	1.00 24.79	
ATOM	9732		31.500	90.766	64.707	1.00 25.23	
ATOM	9734 9736	CA GLU C 348	31.941	91.910	65.508	1.00 25.25	
ATOM			30.718	92.610	66.148	1.00 26.27	
ATOM	9739		29.820	93.435	65.231	1.00 29.33	
ATOM	9742	CD GLU C 348	28.795	92.623	64.439	1.00 34.78	
ATOM	9743	OE1 GLU C 348	28.748	91.364	64.556	1.00 35.05	
ATOM	9744	OE2 GLU C 348	28.022	93.274	63.665	1.00 39.97	
ATOM	9745 9746	C GLU C 348	32.873	91.503	66.655	1.00 23.99	
ATOM	9747	O GLU C 348	33.499	92.355	67.279	1.00 23.59	
ATOM		N PHE C 349	32.880	90.212	66.989	1.00 22.63	
MOTA	9749 9751	CA PHE C 349	33.822	89.626	67.948	1.00 21.44	
ATOM	9754	CB PHE C 349 CG PHE C 349	33.093	88.619	68.816	1.00 21.89	
ATOM	9755		33.898	88.062	69.936	1.00 22.89	
MOTA	9757	CD1 PHE C 349 CE1 PHE C 349	34.514	88.893	70.847	1.00 25.73	
ATOM	9759	CZ PHE C 349	35.239	88.354	71.906	1.00 27.78	
ATOM	9761	CZ PHE C 349 CE2 PHE C 349	35.320	86.979	72:058	1.00 26.52	
ATOM	9763	CD2 PHE C 349	34.697	86.156	71.156	1.00 25.03	
ATOM	9765	C PHE C 349	33.995	86.692	70.105	1.00 23.88	
ATOM	9766	O PHE C 349	34.934	88.910	67.215	1.00 20.23	•
MOTA	9767	N ILE C 350	36.089	89.139	67.494	1.00 19.56	
ATOM	9769	CA ILE C 350	34.587	88.073	66.244	1.00 18.88	
ATOM	9771	CB ILE C 350	35.588	87.275	65.555	1.00 18.34	
MOTA	9773	CG1 ILE C 350	34.919 34.053	86.374	64.501	1.00 18.48	
MOTA	9776	CD1 ILE C 350	32.929	85.320	65.180	1.00 19.15	
ATOM	9780	CG2 ILE C 350	35.956	84.839	64.286	1.00 20.67	
MOTA	9784	C ILE C 350	36.697	85.654 88.127	63.625	1.00 18.23	
ATOM	9785	O ILE C 350	37.894	87.805	64.918	1.00 18.02	
ATOM	9786	N ASN C 351	36.313	89.203	65.066	1.00 17.63	
ATOM	9788	CA ASN C 351	37.284	89.993	64.216 63.470	1.00 17.31	
ATOM	9790	CB ASN C 351	36.634	90.970	62.471	1.00 16.76	
ATOM	9793	CG ASN C 351	36.193	90.299		1.00 16.58	
ATOM	9794	OD1 ASN C 351	36.680	89.250	61.157 60.774	1.00 15.21	
MOTA	9795	ND2 ASN C 351	35.265	90.923	60.774	1.00 16.64	
MOTA	9798	C ASN C 351	38.251	90.703	64.415	1.00 12.76	
ATOM	9799	O ASN C 351	39.428	90.591	64.211	1.00 17.01	
ATOM	9800	N PRO C 352	37.796	91.423	65.431	1.00 17.64 1.00 17.04	
MOTA	9801	CA PRO C 352	38.701	92.051	66.390	1.00 17.04	
ATOM	9803	CB PRO C 352	37.734	92.660	67.386	1.00 17.25 1.00 17.51	
ATOM	9806	CG PRO C 352	36.576	93.055	66.525	1.00 17.51	
MOTA	9809	CD PRO C 352	36.403	91.832	65.684	1.00 17.29 1.00 17.74	
MOTA	9812	C PRO C 352	39.662	91.131	67.120	1 00 17 55	
ATOM	9813	O PRO C 352	40.735	91.557	67.538	1.00 17.55 1.00 17.30	
MOTA	9814	N ILE C 353	39.280	89.878	67.285	1.00 17.30	
MOTA	9816	CA ILE C 353	40.121	88.908	67.973	1.00 17.86	
ATOM	9818	CB ILE C 353	39.344	87.642	68.260	1.00 18.73	
ATOM	9820	CG1 ILE C 353	38.612	87.745	69.557	1.00 19.43	
MOTA	9823	CD1 ILE C 353	37.650	86.617	69.621	1.00 22.63	

ATOM	9827	CG2	ILE	С	353		40.238	86.413	68.304	1.00	21.14		С
ATOM	9831	С	ILE		353		41.223	88.565	67.044		17.44		č
MOTA	9832	0			353		42.370	88.413	67.466		17.27		0
ATOM	9833	N	PHE				40.863	88.377	65.775		17.04		N
MOTA	9835 9837	CA	PHE		354		41.870	88.096	64.776		16.79		C
ATOM ATOM	9840	CB CG			354		41.295	87.430	63.524		16.89		C
ATOM	9841		PHE		354		41.106 40.077	85.940	63.679		16.68		C
ATOM	9843		PHE		354	•	39.918	85.443 84.087	64.458 64.633		16.83 16.11		C
ATOM	9845	CZ	PHE				40.796	83.218	64.047		15.11		C
ATOM	9847		PHE		354		41.834	83.694	63.291		14.88		C
ATOM	9849	CD2	PHE				41.987	85.045	63.107		15.98		Č
MOTA	9851	С			354		42.707	89.330	64.487		16.83		č
MOTA	9852	0			354		43.882	89.151	64.281		16.91		ō
MOTA	9853	N	GLU		355		42.181	90.564	64.572	1.00	17.05		N
MOTA	9855	CA	GLU		355		43.042	91.758	64.341	1.00	18.14		C
ATOM	9857	CB			355		42.309	93.115	64.163		18.96		С
ATOM	9860	CG			355		40.898	92.929	63.605		24.73		С
ATOM	9863	CD	GLU		355		40.007		63.479		30.19		C
ATOM ATOM	9864 9865		GLU GLU				38.932	94.030	62.795		29.35	•	0
ATOM	9866	C	GLU		355		40.334 44.081	95.245 91.842	64.099 65.437		32.39		0
ATOM	9867	ŏ			355		45.256	91.877	65.147		17.35 17.04		C 0
ATOM	9868	N			356		43.641	91.846	66.684		17.06		N
ATOM	9870	CA	PHE		356		44.525	91.801	67.843		16.82		C
ATOM	9872	СВ			356		43.693	91.488	69.083		17.28		č
ATOM	9875	CG			356		44.468	91.485	70.374		16.78		Č
ATOM	9876		PHE		356		44.878	92.672	70.945	1.00	16.87	•	C
MOTA	9878	CE1	PHE				45.563	92.700	72.131	1.00	17.87		C
ATOM	9880	CZ			356		45.829	91.535	72.793		17.65		С
ATOM	9882		PHE				45.414	90.332	72.251		18.63		С
ATOM ATOM	9884 9886						44.719	90.308	71.043		17.21		C
ATOM	9887	CO			356 356		45.573 46.736	90.722 90.927	67.714		17.34		C
ATOM	9888		SER				45.174	89.556	68.092 67.203		17.16 17.18		0
ATOM	9890	CA	SER		357		46.108	88.439	67.136		17.18		N C
ATOM	9892	СВ			357		45.381	87.133	66.813		17.76		C
ATOM	9895	OG			357		44.418	86.873	67.825		18.50		ő
MOTA	9897	С	SER	С	357		47.236	88.737	66.152		16.38		Č
ATOM	9898	0			357		48.396	88.587	66.474	1.00	15.52		Ō
ATOM	9899	N	ARG				46.857	89.200	64.978	1.00	16.04		N
ATOM	9901	CA	ARG		358		47.785	89.681	63.961		16.53		С
ATOM	9903	CB	ARG		358		46.990	90.176	62.736		16.22		С
ATOM ATOM	9906 9909	CG CD	ARG ARG				46.325	89.101	61.928		14.87		C
ATOM	9912	NE	ARG				45.937 44.956	89.541 90.614	60.556 60.583		13.61		C
ATOM	9914	CZ	ARG				43.667	90.450	60.802		12.04 11.62		N
	. 9915		ARG				43.133	89.263	61.004		11.73		C N
MOTA	9918		ARG					91.500	60.809		13.12		N
MOTA	9921	С	ARG				48.709	90.832	64.418		16.96		Č
MOTA	9922	0	ARG				49.835	90.921	63.974		16.47		ŏ
MOTA	9923	N			359		48.188	91.723	65.256	1.00	17.76		N
ATOM .	9925	CA			359		48.885	92.902	65.732	1.00	18.41		C
MOTA	9927	CB			359		47.897	93.908	66.291		18.54		С
MOTA	9931 9932	Ċ			359		49.861	92.495	66.803		19.75		, C
ATOM ATOM	9932	N O			359 360		51.016 49.414	92.878 91.722	66.741		20.24		0
ATOM	9935	CA			360		50.349	91.722	67.796		20.82		N
ATOM	9937	CB			360		49.652	90.151	68.733 69.684		21.74 21.72		C
MOTA	9940	CG			360		48.761	90.800	70.719		22.69		C
ATOM	9943	SD			360		49.549	91.976	71.785		21.63		s
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ATOM 9948 C MET C 360 51.503 90.375 68.024 1.00 22.40 C C ATOM 9950 N ARG C 361 51.250 89.631 66.958 1.00 22.90 N ARG C 361 51.250 89.631 66.958 1.00 23.53 N ARG C 361 52.334 88.893 66.291 1.00 24.93 C C ARG C 361 51.792 88.118 65.070 1.00 27.27 C C ATOM 9950 C ARG C 361 52.341 88.893 66.020 1.00 27.27 C C ATOM 9960 C D ARG C 361 52.259 87.610 62.597 1.00 30.11 C ATOM 9960 C D ARG C 361 52.259 87.610 62.597 1.00 30.11 C ATOM 9960 C D ARG C 361 53.023 86.532 61.23 1.00 32.45 N ATOM 9965 CZ ARG C 361 53.023 86.532 61.23 1.00 32.45 N ATOM 9965 CZ ARG C 361 53.432 86.776 60.553 1.00 32.45 N ATOM 9965 CZ ARG C 361 53.432 86.776 60.553 1.00 32.45 N ATOM 9965 NR ARG C 361 53.178 87.867 99.885 1.00 32.45 N ATOM 9969 NR ARG C 361 53.178 87.867 99.885 1.00 32.45 N ATOM 9979 NR ARG C 361 54.188 89.539 65.315 1.00 32.45 N ATOM 9979 NR ARG C 361 54.188 89.539 65.315 1.00 32.45 N ATOM 9979 NR ARG C 362 53.817 90.985 65.315 1.00 24.75 C ATOM 9971 N ARG C 362 53.817 90.985 65.315 1.00 24.75 N ATOM 9979 NR ARG C 362 53.817 90.985 65.315 1.00 24.75 N ATOM 9978 C ARG C 362 53.817 90.985 65.315 1.00 26.81 C ATOM 9981 C ARG C 362 53.817 92.131 64.879 1.00 26.81 C ATOM 9981 C ARG C 362 53.817 92.131 64.879 1.00 26.81 C ATOM 9987 NR ARG C 362 53.817 92.131 64.879 1.00 26.81 C ATOM 9989 N ARG C 362 53.813 93.250 64.461 1.00 27.31 C ATOM 9989 N ARG C 362 53.813 94.320 69.445 1.00 31.62 C ATOM 9999 N NH ARG C 362 53.813 94.320 69.00 1.00 31.62 C ATOM 9999 N NH ARG C 362 53.813 94.320 69.00 1.00 31.00 26.85 N ATOM 9999 N NH ARG C 362 54.220 95.097 62.825 1.00 33.06 C ATOM 9999 N NH ARG C 362 54.220 95.097 62.825 1.00 33.06 C ATOM 9999 N NH ARG C 362 54.220 95.097 62.825 1.00 33.06 C ATOM 9999 N NH ARG C 362 54.220 95.097 62.825 1.00 33.06 C ATOM 9999 N NH ARG C 362 54.220 95.097 62.825 1.00 33.06 C ATOM 9999 N NH ARG C 362 54.220 95.097 62.825 1.00 33.06 C ATOM 9999 N NH ARG C 362 54.220 95.00 30.00 65.775 1.00 26.65 N ATOM 10000 C A EUU C 363 55.424 99.277 94.722 62.947 1.00 26.65 N ATOM 10000 C A EUU C 363 55.424 99.277 94.722 62.947 1	ATOM	9944		MET			50.525				1.00		C
NATION 9950 N ARC 2 361 51.250 89.631 66.958 1.00 23.53 N	ATOM	9948					51.503						C
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AIUM 10000 U AGE C 30/ 30.903 65.306 /3.024 1.00 22.49 U													
	MION	10000		ASE		. 367	30.90	J 65.					O

ATOM	10067	N	ALA C	368	58.984	06 075	70 00-		
ATOM	10069	CA				86.075	78.387	1.00 23.55	
			ALA C		59.213	86.954	79.536	1.00 22.91	
ATOM	10071	CB	ALA C		60.619	87.492	79.502	1.00 23.06	
MOTA	10075	С	ALA C		58.231	88.094	79.517	1.00 22.31	
ATOM	10076	0	ALA C	368	57.646	88.446	80.546	1.00 22.06	
ATOM	10077	N	GLU C	369	58.051	88.643	78.316	1.00 21.69	
ATOM	10079	CA	GLU C		57.169	89.791	78.096	1.00 21.03	
MOTA	10081	CB	·GLU C		57.463	90.435			
ATOM	10084	CG	GLU C				76.731	1.00 20.89	
ATOM	10087				58.738	91.284	76.722	1.00 18.99	
		CD	GLU C		59.372	91.484	75.342	1.00 17.52	
ATOM	10088	OET	GLU C	369	60.058	·92.511	75.180	1.00 16.47	
MOTA	10089		GLU C		59.221	90.641	74.421	1.00 16.36	
ATOM	10090	С	GLU C		55.698	89.409	78.238	1.00 20.50	
MOTA	10091	0	GLU C	369	54.925	90.171	78.803	1.00 20.24	•
MOTA	10092	N	TYR C	370	55.320	88.232	77.760	1.00 19.94	
ATOM	10094	CA	TYR C	370	53.942	87.832	77.870	1.00 20.41	
ATOM	10096	CB	TYR C		53.689	86.539	77.102		
ATOM	10099	CG	TYR C		53.051	86.728		1.00 20.54	
ATOM		CD1	TYR C		53.750		75.727	1.00 22.11	
ATOM	10102	CE1				86.401	74.574	1.00 23.49	
					53.197	86.553	73.337	1.00 23.37	
MOTA	10104	CZ	TYR C		51.936	87.044	73.198	1.00 23.38	
ATOM		OH	TYR C		51.445	87.167	71.918	1.00 25.78	
MOTA	10107	CE2			51.198	87.377	74.308	1.00 23.16	
ATOM	10109	CD2	TYR C	370	51.758	87.211	75.578	1.00 22.69	
MOTA	10111	C	TYR C	370	53.567	87.675	79.349	1.00 20.55	
MOTA	10112	0	TYR C	370	52.550	88.157	79.804	1.00 20.68	
ATOM	10113	N	ALA C		54.424	87.028	80.115	1.00 21.01	
ATOM	10115	CA	ALA C		54.104	86.692	81.498	1.00 20.71	
ATOM	10117	СВ	ALA C		55.123	85.737	82.021	1.00 21.09	
ATOM	10121	C.	ALA C		54.044	87.915	82.379		
ATOM	10122	ō	ALA C		53.217	88.003	83.295	1.00 20.62	
ATOM	. 10123	N	LEU C		54.937			1.00 19.75	•
ATOM	10125	CA	LEU C			88.851	82.080	1.00 20.82	
ATOM	10123	CB	TEO C		54.943	90.156	82.734	1.00 21.23	
ATOM	10127				56.238	90.934	82.400	1.00 21.20	
ATOM	10130	CG	LEU C		57.489	90.444	83.168	1.00 21.11	
			LEU C		58.749	91.065	82.616	1.00 20.65	
ATOM	10136		LEU C		57.347	90.751	84.655	1.00 20.82	
ATOM	10140	C	LEU C		53.693	90.993	82.402	1.00 21.30	
ATOM	10141	0	LEU C		53.125	91.653	83.290	1.00 21.12	
ATOM	10142	N	TEA C		53.262	90.965	81.144	1.00 21.20	
ATOM	10144	CA	LEU C		52.045	91.684	80.741	1.00 21.46	
MOTA	10146	CB	LEU C		51.852	91.625	79.227	1.00 22.26	
MOTA	10149	CG	LEU C		51.785	92.881	78.364	1.00 23.82	
ATOM	10151	CD1	LEU C	373	51.079	92.498	77.110	1.00 26.07	
MOTA	10155	CD2	LEU C	373	51.069	94.022	79.018	1.00 25.10	
ATOM	10159	C	LEU C	373	50.810	91.068	81.405	1.00 20.82	
ATOM	10160	0	LEU C		49.889	91.782	81.801	1.00 20.56	
MOTA	10161	N	ILE C		50.804	89.741	81.538		
ATOM	10163	CA	ILE C		49.712	89.038		1.00 20.35	
ATOM	10165	CB	ILE C				82.215	1.00 19.83	
ATOM	10167		ILE C	274	49.837	87.504	82.026	1.00 19.67	
ATOM	10170				49.609	87.124	80.570	1.00 18.25	
		CD1	ILE C		50.070	85.805	80.239	1.00 17.91	
MOTA	.10174	CG2	ILE C		48.820	86.773	82.904	1.00 20.58	
ATOM	10178	C	ILE C		49.641	89.416	83.704	1.00 19.80	
ATOM	10179	0	ILE C		48.561	89.638	84.248	1.00 19.27	
ATOM	10180	N	ALA C		50.800	89.498	84.342	1.00 20.09	
ATOM	10182	CA	ALA C		50.885	89.850	85.749	1.00 20.49	
MOTA	10184	CB	ALA C		52.297	89.660	86.256	1.00 20.40	
ATOM	10188	C	ALA C		50.462	91.287	85.940	1.00 21.01	
MOTA	10189	0	ALA C	375	49.738	91.621	86.880	1.00 21.55	
MOTA	10190	N	ILE C		50.914	92.155	85.054	1.00 21.25	
					•	-			

MOTA	10192	CA	ILE 4	С	376	50.487	93.540	85.147	1.00 21.75	С
ATOM	10194	CB	ILE	С	376	51.120	94.397	84.049	1.00 22.02	С
ATOM	10196	CG1	ILE			52.633	94.584	84.325	1.00 22.83	C
MOTA	10199		ILE		376	53.499	95.020	83.102	1.00 22.97	С
MOTA	10203	CG2	ILE			50.356	95.720	83.927	1.00 21.74	C
MOTA	10207	С	ILE			48.977	93.573	85.021	1.00 22.03	С
MOTA	10208	0	ILE		376	48.306	94.274	85.780	1.00 22.24	0
MOTA	10209	N	ASN			48.462	92.805	84.053	1.00 22.18	N
MOTA	10211	CA	ASN			47.049	92.807	83.717	1.00 22.16	C
MOTA	10213	CB	ASN		377	46.792	91.894	82.512	1.00 22.34	C
MOTA	10216	CG	ASN			45.340	91.928	82.053	1.00 23.24	C
MOTA	10217		ASN			44.487	91.235	82.624	1.00 25.25	0
MOTA	10218		ASN		377	45.048	92.740	81.042	1.00 21.97	N
MOTA	10221	С	ASN			46.193	92.391	84.924	1.00 21.96	C
MOTA	10222	0	ASN			45.222	93.060	85.282	1.00 21.34	0
MOTA	10223	N	ILE		378	46.581	91.282	85.551	1.00 22.24	N
MOTA	10225	CA	ILE			45.945	90.795	86.806	1.00 21.86	C
ATOM	10227	СВ	ILE			46.760	89.582	87.339	1.00 21.27	C
MOTA	10229		ILE		378	46.488	88.360	86.454	1.00 20.50	C
MOTA	10232	CD1				47.527	87.185	86.593	1.00 21.01	C
MOTA	10236		ILE			46.412	89.292	88.780	1.00 21.94	C
MOTA	10240	C	ILE			45.770	91.897	87.897	1.00 21.49	C
ATOM	10241	0	ILE			44.687	92.096	88.433	1.00 19.66	0
MOTA	10242	N	PHE			46.860	92.611	88.162	1.00 22.23	N
ATOM	10244	CA	PHE			46.946	93.623	89.217	1.00 22.96	C
MOTA	10246	CB	PHE			48.369	93.663	89.813	1.00 22.66	C
ATOM	10249	CG	PHE			48.767	92.406	90.526 90.210	1.00 22.91 1.00 22.67	C
MOTA	10250		PHE			49.961	91.762		1.00 22.67	C
ATOM	10252		PHE			50.334	90.610 90.083	90.874 91.868	1.00 21.01	C
ATOM	10254	CZ			379	49.506 48.324	90.701	92.207	1.00 21.00	0000
ATOM	10256		PHE			47.953	91.864	91.533	1.00 21.90	C
ATOM ATOM	10258 10260	CD2	PHE		379	46.527	95.021	88.751	1.00 23.26	Č
ATOM	10260	0			379	47.210	95.997	88.972	1.00 22.51	ŏ
ATOM	10261	N			380	45.364	95.107	88.137	1.00 24.39	N
ATOM	10262	CA	SER		380	44.842	96.390	87.709	1.00 25.22	Č
ATOM	10266	CB			380	44.295	96.277	86.279	1.00 25.20	Č
ATOM	10269	OG			380	45.187	95.547	85.453	1.00 23.22	Ö
ATOM	10271	C	SER		380	43.799	96.848	88.742	1.00 25.91	Č
ATOM	10272	ŏ			380	42.695	96.299	88.849	1.00 24.92	Ō
MOTA	10273	Ň			381	44.185	97.873	89.497	1.00 27.23	N
ATOM	10275	CA	ALA			43.428	98.348	90.671	1.00 28.01	С
ATOM	10277	CB			381	44.244	99.402	91.448	1.00 27.35	C
MOTA	10281	C	ALA			42.017	98.888	90.350	1.00 28.78	С
MOTA	10282	0	ALA	C	381	41.168	98.986	91.254	1.00 29.19	0
MOTA	10283	N	ASP	С	382	41.776	99.215	89.077	1.00 29.16	N
ATOM	10285	CA	ASP	С	382	40.508	99.807	88.639	1.00 29.25	C
MOTA	10287	CB	ASP	С	382		100.771	87.516	1.00 29.43	C
ATOM	10290	CG			382	41.288	100.069	86.275	1.00 31.79	С
MOTA	10291		ASP			41.958		86.392	1.00 30.62	0
MOTA	10292	OD2	ASP			41.037	100.543	85.138	1.00 35.14	0
MOTA	10293	С			382	39.430		88.170	1.00 28.95	C
ATOM	10294	0			382	38.468		87.501	1.00 28.93	0
MOTA	10295	N			383	39.564		88.525	1.00 28.77	N
ATOM	10297	CA			383	38.525		88.169	1.00 28.43	C
MOTA	10299	CB			383	39.021		88.360	1.00 28.28	C
MOTA	10302	CG			383	40.236		87.593	1.00 26.97	C
MOTA	10305	CD			383	40.026		86.117	1.00 26.28	C
MOTA	10308	NE			383	41.162		85.408	1.00 24.87	N
ATOM	10310	CZ			383	41.202		84.110		C
ATOM	10311	NHl	ARG	C	383	40.168	94.424	83.354	1.00 19.43	N
		····								

10314	NH2	ARG C	383	42.283	93.552	83.578	1.00 20.52	
	С			37.252	96.827		1.00 28.42	
10318	.0	ARG C	383	37.314			1.00 27.50	
10319	N	PRO C	384	36.110	96.366			
10320	CA	PRO C	384	34.869	96.341			
10322	CB	PRO C	384					
10325	CG	PRO C	384					
10328								
					94 404			
					.94 351	92 926		
				40.443				
						95.304		
								·
				36.271				
								•
					93.599	99.695		
							1.00 27.19	
				40.480			1.00 26.75	
							1.00 26.26	
							1.00 26.27	
							1.00 25.93	
							1.00 26.32	
					94.301	101.395	1.00 23.97	
							1.00 29.05	
						97.043	1.00 25.86	
					97.281	96.851	1.00 25.49	
						96.271		
						95.049	1.00 24.67	
						94.546	1.00 24.61	
				40.898	100.661	95.599	1.00 24.99	
				40.829	99.497	96.521	1.00 25.33	
	С			44.194	99.649	95.335		
	O.			45.083	99.271	94.569		
	N	GLY C	390	44.404	100.414	96.412	1.00 23.99	
10411	CA	GLY C		45.739	100.826	96.831	1.00 23.80	
10411 10414		GLY C	390	45.739 46.722		96.832	1.00 23.80 1.00 24.09	
10411 10414 10415	CA	GLY C	390 390	45.739	100.826	96.832	1.00 23.80 1.00 24.09 1.00 23.75	
10411 10414 10415 10416	CA C	GLY C	390 390	45.739 46.722	100.826 99.671	96.832 96.246	1.00 24.09 1.00 23.75	
10411 10414 10415 10416 10418	CA C O	GLY C GLY C ARG C ARG C	390 390 391 391	45.739 46.722 47.796 46.337 47.178	100.826 99.671 99.753	96.832	1.00 24.09 1.00 23.75 1.00 24.84	
10411 10414 10415 10416 10418 10420	CA C O N	GLY C GLY C ARG C	390 390 391 391	45.739 46.722 47.796 46.337	100.826 99.671 99.753 98.576	96.832 96.246 97.478 97.546	1.00 24.09 1.00 23.75 1.00 24.84 1.00 25.72	
10411 10414 10415 10416 10418 10420 10423	CA C O N CA	GLY C GLY C ARG C ARG C	390 390 391 391 391	45.739 46.722 47.796 46.337 47.178	100.826 99.671 99.753 98.576 97.384	96.832 96.246 97.478 97.546 98.490	1.00 24.09 1.00 23.75 1.00 24.84 1.00 25.72 1.00 26.51	
10411 10414 10415 10416 10418 10420	CA C O N CA CB	GLY C GLY C ARG C ARG C	390 390 391 391 391 391	45.739 46.722 47.796 46.337 47.178 46.579	100.826 99.671 99.753 98.576 97.384 96.341 96.591	96.832 96.246 97.478 97.546 98.490 99.959	1.00 24.09 1.00 23.75 1.00 24.84 1.00 25.72 1.00 26.51 1.00 30.17	
10411 10414 10415 10416 10418 10420 10423	CA C O N CA CB CG	GLY C GLY C ARG C ARG C ARG C	390 390 391 391 391 391 391	45.739 46.722 47.796 46.337 47.178 46.579 46.949 47.538	100.826 99.671 99.753 98.576 97.384 96.341 96.591 95.369	96.832 96.246 97.478 97.546 98.490 99.959 100.659	1.00 24.09 1.00 23.75 1.00 24.84 1.00 25.72 1.00 26.51 1.00 30.17 1.00 34.52	
10411 10414 10415 10416 10418 10420 10423 10426	CA C O N CA CB CG	GLY C GLY C ARG C ARG C ARG C ARG C	390 390 391 391 391 391 391	45.739 46.722 47.796 46.337 47.178 46.579 46.949	100.826 99.671 99.753 98.576 97.384 96.341 96.591 95.369 94.388	96.832 96.246 97.478 97.546 98.490 99.959 100.659	1.00 24.09 1.00 23.75 1.00 24.84 1.00 25.72 1.00 26.51 1.00 30.17	
	10317 10318 10319 10320 10322 10325 103328 103331 103335 103337 10341 10342 10345 10345 10345 10346 10347 10357 10363 10363 10373 10373 10373 10373 10373 10373 10375 10375 10375 10375 10375 10375 10375 10375 10375 10375 10375 10375 10375 10375 10375 10377 10375 10	10317 C 10318 O 10319 N 10320 CA 10322 CB 10325 CG 10328 CD 10331 C 10332 O 10333 N 10335 CA 10340 CG 10341 OD1 10342 ND2 10345 C 10346 O 10347 NA 10351 CB 10357 CG2 10361 C 10362 O 10363 N 10365 CA 10367 CB 10370 CG 10370 CG 10373 CD 10374 OE1 10375 NE2 10378 C 10378 C 10378 C 10379 O 10378 CC 10379 CC 10379 CC 10378 CC 10379 CC 1037	10317 C ARG C 10318 O ARG C 10319 N PRO C 10320 CA PRO C 10322 CB PRO C 10325 CG PRO C 10328 CD PRO C 10331 C PRO C 10332 O PRO C 10333 N ASN C 10335 CA ASN C 10337 CB ASN C 10340 CG ASN C 10341 OD1 ASN C 10342 ND2 ASN C 10345 C ASN C 10345 C ASN C 10345 C ASN C 10346 O ASN C 10347 N VAL C 10349 CA VAL C 10351 CB VAL C 10351 CB VAL C 10363 N GLN C 10363 N GLN C 10365 CA GLN C 10367 CB GLN C 10367 CB GLN C 10368 N GLN C 10370 CG GLN C 10370 CG GLN C 10371 CB GLN C 10372 CB GLN C 10373 CD GLN C 10373 CD GLN C 10374 OE1 GLN C 10375 NE2 GLN C 10375 NE2 GLN C 10376 CB GLU C 10377 CB GLU C 10378 C GLN C 10378 C GLN C 10379 O GLN C 10379 O GLN C 10379 O GLN C 10380 N GLU C 10381 CB GLU C 10391 OE1 GLU C 10392 CB GLU C 10391 OE1 GLU C 10395 N PRO C 10396 CA PRO C 10397 O GLU C 10398 CB PRO C 10404 CD PRO C 10407 C PRO C 10408 O PRO C	10317 C ARG C 383 10318 O ARG C 383 10319 N PRO C 384 10320 CA PRO C 384 10322 CB PRO C 384 10325 CG PRO C 384 10328 CD PRO C 384 10331 C PRO C 384 10332 O PRO C 384 10333 N ASN C 385 10335 CA ASN C 385 10337 CB ASN C 385 10340 CG ASN C 385 10341 OD1 ASN C 385 10342 ND2 ASN C 385 10345 C ASN C 385 10347 N VAL C 386 10347 N VAL C 386 10347 N VAL C 386 10351 CB VAL C 386 10351 CB VAL C 386 10353 CG1 VAL C 386 10357 CG2 VAL C 386 10361 C VAL C 386 10362 O VAL C 386 10363 N GLN C 387 10365 CA GLN C 387 10370 CG GLN C 387 10370 CG GLN C 387 10373 CD GLN C 387 10374 OE1 GLN C 387 10375 NE2 GLN C 387 10376 C GLN C 387 10377 CG GLN C 387 10378 C GLN C 387 10379 O GLN C 387 10379 C GLN C 388 10391 OE1 GLU C 388 10391 OE1 GLU C 388 10391 OE1 GLU C 388 10393 C GLU C 388 10394 O GLU C 388 10395 N PRO C 389 10404 CD PRO C 389 10407 C PRO C 389	10317 C ARG C 383 37.252 10318 O ARG C 383 37.314 10319 N PRO C 384 36.110 10320 CA PRO C 384 34.869 10322 CB PRO C 384 34.465 10328 CD PRO C 384 35.923 10331 C PRO C 384 35.923 10331 C PRO C 384 35.455 10333 N ASN C 385 34.516 10335 CA ASN C 385 34.335 10337 CB ASN C 385 32.101 10341 OD1 ASN C 385 31.364 10342 ND2 ASN C 385 31.364 10342 ND2 ASN C 385 35.616 10345 C ASN C 385 35.616 10346 O ASN C 385 35.616 10347 N VAL C 386 36.733 10349 CA VAL C 386 36.733 10349 CA VAL C 386 37.980 10351 CB VAL C 386 39.226 10353 CG1 VAL C 386 39.447 10361 C VAL C 386 37.396 10365 CA GLN C 387 38.330 10365 CA GLN C 387 38.330 10365 CA GLN C 387 38.330 10370 CG GLN C 387 36.271 10373 CD GLN C 387 36.271 10373 CD GLN C 387 35.066 10374 OE1 GLN C 387 35.066 10375 NE2 GLN C 387 36.271 10375 NE2 GLN C 387 34.297 10375 NE2 GLN C 387 39.263 10380 N GLU C 388 40.480 10380 C GLN C 387 39.330 10379 O GLN C 387 39.330 10379 O GLN C 387 39.263 10380 N GLU C 388 40.480 10381 CB GLU C 388 40.480 10382 CA GLU C 388 41.737 10378 C GLU C 388 42.596 10391 OE1 GLU C 388 42.596 10393 C GLU C 388 42.769 10394 O GLU C 388 42.769 10395 CA PRO C 389 42.083 10396 CA PRO C 389 42.083 10396 CA PRO C 389 42.083 10400 CD PRO C 389 44.194 10408 O PRO C 389 44.194	10317 C ARG C 383 37.252 96.827 10318 O ARG C 383 37.314 97.405 10319 N PRO C 384 36.110 96.366 10320 CA PRO C 384 34.869 96.341 10325 CG PRO C 384 33.891 95.616 10325 CG PRO C 384 34.970 95.550 10332 O PRO C 384 35.923 95.836 10331 C PRO C 384 35.923 95.836 10332 O PRO C 384 35.955 94.404 10333 N ASN C 385 34.516 96.172 10335 CA ASN C 385 34.335 95.560 10337 CB ASN C 385 32.101 94.679 10341 ODI ASN C 385 32.101 94.679 10342 ND2 ASN C 385 31.839 94.004 10345 C ASN C 385 31.839 94.004 10345 C ASN C 385 35.616 95.178 10346 O ASN C 385 35.616 95.178 10347 N VAL C 386 36.733 95.785 10349 CA VAL C 386 36.733 95.785 10351 CB VAL C 386 39.226 96.083 10353 CG1 VAL C 386 37.872 96.449 10363 N GLN C 387 38.309 95.875 10366 C VAL C 386 37.872 96.449 10363 N GLN C 387 38.069 96.393 10367 CB GLN C 387 36.271 94.618 10370 CG GLN C 387 36.271 94.618 10370 CG GLN C 387 36.271 94.618 10375 NE2 GLN C 387 36.271 94.618 10375 NE2 GLN C 387 36.271 94.618 10376 CB GLN C 387 39.263 97.511 10380 N GLU C 388 40.480 96.737 10382 CA GLU C 388 41.737 97.323 10384 CB GLN C 387 39.263 97.511 10380 N GLU C 388 42.769 95.473 10379 O GLN C 387 39.263 97.511 10380 N GLU C 388 42.769 95.473 10391 OE1 GLU C 388 42.769 95.473 10392 CB GLU C 388 43.187 94.301 10393 C GLU C 388 42.769 95.473 10394 O GLU C 388 42.769 95.473 10395 N PRO C 389 42.083 99.271 10398 CB PRO C 389 42.083 99.271 10398 CB PRO C 389 42.083 99.271	10317	10317

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10432 10435 10438 10438 10439 104440 104442 104444 104450 10455 10456 10458 10466 10467 10468 10466 10470 10471 10473 10473 10473 10488 10498 10498 10498 10502 10515 10524 10527 10528 10538 10	NH2 CONCABGO 12	LEU LEU GLN		391 391 391 3992 3993 3993 3993 3993 399	47.8 48.8 49.8 49.8 50.1 51.5 51.6 51.6 51.6 51.6 51.6 51.6 51	22665416646788278852586667455983523754564668565555555553	93.445 92.617 92.737 94.739 93.964 95.663 95.794 96.544 97.620 98.821 96.407 96.084 97.212 96.407 96.084 97.212 96.084 97.215 100.154 101.650	101.18 95.4.028 95.4.028 95.4.028 95.4.028 97.18	973 973 973 973 973 973 973 973 973 973	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.10 25.25		NE NO
MOTA														
			GLN	С	397	54.	235	98.155	90.	467	1.00	24.62		С
MOTA	10521	CB	GLŃ	С	397									
						55. 55.	523 510	101.23						С
MOTA	10528	OE1	GLN	С	397	56.	566	101.650	93.	029	1.00	31.23		0
MOTA MOTA	10532 10533	С 0	GLN GLN			56.		97.42				24.00		o
ATOM	10534	И	PRO	С	398	56.	018	96.44	90.	834	1.00	23.14		N
MOTA	10535	CA	PRO	С	398	57.		95.743		454		22.24		C
ATOM ATOM	10537	CB CG			398 398	57. 56.				589 630		22.05		C
MOTA	10540 10543	CD	PRO			55.			0 92.	118		22.92		С
MOTA	10546	С	PRO	С	398	57.	210	95.02	2 89.	098	1.00	21.53		C
MOTA	10547	0			398	58.				495		20.78		О И
ATOM	10548 10550	N CD			399 399		006 868			628		20.65		C
ATOM ATOM	10550	CB			399		560			297		20.06		Č
													 	

-										
ATOM	10555	CG	TYR	C 399	54.53	0 92.131	88.366	1 00 00		•
ATOM	10556	CD:		C 399	53.73	2 92.251				, C
ATOM	10558	CE	l TYR		53.70					С
ATOM		CZ		C 399	54.51					· C
ATOM	10561	OH		C 399	54.51					C.
ATOM	. 10563	CE	2 TYR	C 399	55.33					. 0
ATOM	10565	CD2	2 TYR	C 399	55.34					С
MOTA	10567	С	TYR	C 399	56.03					С
ATOM		0	TYR	C 399	56.74	3 94.746				. С
MOTA	10569	N		C 400	55.44	4 96.184				0
. ATOM		CA		C 400	55.68	0 97.285	85.412			N
ATOM		CB	VAL	C 400	54.90					C
ATOM		CG1	LVAL	C 400	55.29	99.756				C
ATOM	•	CG2	VAL	C 400	53.37			1.00 20.25 1.00 21.27		C
MOTA	10583	С	VAL	C 400	57.16		85.364	1.00 21.27		C
ATOM	10584	0		C 400	57.74		84.283	1.00 21.38		. c
MOTA	10585	N	GLU	C 401	57.76			1.00 21.31		. 0
ATOM	10587	CA		C 401	59.19		86.765	1.00 22.02		. И
ATOM	10589	CB		C 401	59.50	98.070	88.271	1.00 22.30		C
ATOM	10592	CG	GLU	C 401	59.083		88.854	1.00 24.80		C
ATOM	10595	CD	GLU	C 401	59.322	99.617	90.351	1.00 26.00		·C
ATOM	10596	OE1	GLU (C 401	59.70	100.749	90.728	1.00 27.04		. C
ATOM	10597		GLU		59.09	98.680	91.149	1.00 27.07		0
ATOM	10598	C	GLU (C 401	60.099		86.128	1.00 22.24		C
ATOM ATOM	10599	0		C 401	61.15		85.569	1.00 22.01		Ö
ATOM	10600	N		C 402	59.674		86.225	1.00 22.23		Ŋ
ATOM	10602	CA	ALA (C 402.	60.413		85.632	1.00 21.76		C
ATOM	10604 10608	CB	ALA (C 402	59.864	_	86.097	1.00 21.70		C
ATOM	10608	O ·	ALA (C 402	60.314		84.128	1.00 21.41		č
ATOM	10610	N		402	61.321		83.449	1.00 21.22		ŏ
ATOM	10612	CA	TEU (C 403 .	59.102		83.625	1.00 21.25		Ŋ
ATOM	10614	CB	TEU (2 403	58.863		82.192	1.00 21.39		Ċ
ATOM	10617	CG	LEU (2 403	57.370		81.942	1.00 21.10		Ċ
ATOM	10619		LEU	403	56.973		80.473	1.00 21.04		C
ATOM	10623	CD2	LEU	7 403	57.618 55.471		79.759			С
ATOM	10627	C	LEU (403	59.593		80.370	1.00 21.60		С
ATOM	10628	Ō	LEU	2 403	60.208		81.508	1.00 21.83		C C
· ATOM	10629	N	LEU	404	59.507		80.451	1.00 21.24		0
MOTA	10631	CA	LEU C	404	60.217		82.118	1.00 22.53		'n
ATOM	10633	CB	LEU C	404	60.033	99.618	81.642 82.642	1.00 23.54	•	С
ATOM	10636	CG	LEU C	404	60.917	100.858	82.554	1.00 23.92		C
ATOM	10638	CD1	LEU C	404	60.904	101.443	81.154	1.00 25.19 1.00 27.52		C .
ATOM	10642	CD2	LEU C	404		101.860	83.553	1.00 27.52		C
ATOM	10646	С	LEU C	404	61.686	98.129	81.484	1.00 23.81		C
ATOM	10647	0	LEU C		62.266		80.401	1.00 24.50		C
ATOM	10648	N	SER C		62.264	97.610	82.573	1.00 25.23		0
ATOM	10650	CA	SER C		63.683		82.647	1.00 25.80		N
ATOM ATOM	10652	CB	SER C		63.989	96.620	84.037	1.00 26.32		C
ATOM	10655	OG	SER C	405	63.851	97.551	85.112	1.00 27.50	•	C
ATOM	10657 10658	C	SER C	405	64.093	96.188	81.569	1.00 25.70		· C O
ATOM	10658	O N	SER C		65.128	96.317	80.915	1.00 25.38	•	0
ATOM	10659	N CA	TYR C	406	63.262	95.170	81.399	1.00 25.90		Ŋ
ATOM	10663	CB	TYR C	406	63.587	94.041	80.545	1.00 26.24		Č
ATOM	10666	CG	TYR C	406	62.589	92.906	80.769	1.00 25.52		č
ATOM	10667		TYR C	406	62.786	91.683	79.898	1.00 24.35		č
ATOM	10669	CE1	TYR C	406	63.429	90.548	80.382	1.00 24.04	•	č
ATOM	10671	CZ	TYR C	406	63.586	89.422	79.584	1.00 22.32		Ċ
ATOM	10672	OH	TYR C	406	63.093 63.237	89.428	78.315	1.00 20.54		C ·
ATOM	10674		TYR C	406	62.449	88.326	77.543	1.00 21.00		0
	_		•	100.	02.449	90.516	77.819	1.00 20.39		·C

MOTA	10676	CD2	TYR	C	406	62.296	91.638	78.605	1.00 21.70	C
ATOM	10678	С	TYR	С	406	63.621	94.467	79.082	1.00 27.56	C
ATOM	10679	ŏ	TYR			64.556	94.101	78.365	1.00 27.64	Ö
MOTA	10680	N	THR			62.614	95.239	78.656	1.00 29.01	N
MOTA	10682	CA	THR			62.495	95.714	77.266	1.00 30.12	C
MOTA	10684	CB	THR	С	407	61.170	96.471	77.044	1.00 29.66	C
ATOM	10686	OG1	THR			60.979	97.458	78.066	1.00 27.76	0
						59.974	95.548	77.183		
MOTA	10688	CG2	THR						1.00 29.40	C
ATOM	10692	C	THR			63.650	96.643	76.900	1.00 32.37	С
ATOM	10693	0	THR	С	407	64.193	96.578	75.785	1.00 32.25	0
ATOM	10694	N	ARG			64.029	97.489	77.859	1.00 34.93	N
ATOM	10696	CA	ARG		408	65.144	98.405	77.680	1.00 37.43	Ċ
ATOM	10698	CB	ARG			65.228	99.405	78.845	1.00 37.99	C
ATOM	10701	CG	ARG	С	408		100.860	78.411	1.00 40.93	С
ATOM	10704	CD	ARG	С	408	65.857	101.952	78.909	1.00 44.75	С
ATOM	10707	NE	ARG				103.150	79.413	1.00 48.25	N
	10709	CZ	ARG				103.186	80.468	1.00 50.24	č
MOTA										
MOTA	10710		ARG		408		102.084	81.167	1.00 51.53	N
MOTA	10713	NH2	ARG	С	408	63.761	104.338	80.829	1.00 50.42	N
MOTA	10716	C	ARG	С	408	66.472	97.656	77.487	1.00 38.95	С
ATOM	10717	Ö	ARG			67.464	98.246	77.036	1.00 38.99	Ō
ATOM.	10718	N			409	66.469		77.844	1.00 40.77	N
MOTA	10720	CA			409	67.505	95.391	77.447	1.00 41.64	С
MOTA	10722	CB	ILE	C	409	67.941	94.592	78.681	1.00 41.57	С
ATOM	10724	CG1				68.996	95.419	79.458	1.00 41.47	С
ATOM	10727	CD1			409	68.633		80.891	1.00 40.71	Ċ
										C
ATOM	10731	CG2	ILE			68.462		78.282	1.00 41.94	C
MOTA	10735	С			409	67.124	94.508	76.203	1.00 42.62	С
ATOM	10736	0	ILE	С	409	67.655	94.771	75.127	1.00 42.69	0
ATOM	10737	N	LYS	С	410	66.235	93.507	76.304	1.00 43.56	N
ATOM	10739	CA			410	65.826		75.101	1.00 44.44	C
										Č
MOTA	10741	CB			410	64.316		75.087	1.00 44.79	Ç
ATOM	10744	CG			410	63.734		73.657	1.00 44.91	С
ATOM	10747	CD	LYS	С	410	62.604	91.015	73.645	1.00 44.67	С
ATOM	10750	CE			410	62.061	90.789	72.233	1.00 44.52	С
ATOM	10753	NZ			410	61.779		71.938	1.00 44.64	N
MOTA	10757	C			410	66.179		73.814	1.00 44.90	C
ATOM	10758	0			410	67.136		73.119	1.00 45.15	0
ATOM	10759	N	ARG	С	411	65.407	94.547	73.494	1.00 45.25	N
ATOM	10761	CA	ARG	С	411	65.760	95.467	72.394	1.00 45.54	С
ATOM	10763	CB	ARG	C	411	64.745		71.223	1.00 45.91	C
ATOM	10766	CG			411	64.244		70.836	1.00 47.88	Č
										Č
MOTA	10769	CD			411	63.762		69.363	1.00 50.08	C
ATOM	10772	NE			411	62.572	92.977	69.270	1.00 51.85	N
MOTA	10774	CZ	ARG	С	411	61.801	92.834	68.182	1.00 52.30	С
MOTA	10775		ARG			62.081		67.058	1.00 51.46	N
ATOM	10778		ARG			60.740		68.221	1.00 51.88	N
MOTA	10781	C			411	.65.895		72.989	1.00 44.58	С
MOTA	10782	0			411	64.907		73.337	1.00 44.52	. 0
MOTA	10783	N	PRO	С	412	67.118	97.353	73.146	1.00 43.52	N
MOTA	10784	CA	PRO	C	412	67.335		73.656	1.00 42.85	C
ATOM	10786	CB			412	68.805		74.111	1.00 43.05	Ċ
										0
MOTA	10789	CG			412	69.259		73.954	1.00 43.40	C
ATOM	10792	CD			412	68.390		72.874	1.00 43.60	С
MOTA	10795	С	PRO	С	412	67.115	99.809	72.599	1.00 41.83	С
MOTA	10796	0	PRO	С	412		100.982	72.974	1.00 41.57	0
ATOM	10797	N			413	67.063		71.317	1.00 40.57	N
										N
MOTA	10799	CA			413		100.396	70.224	1.00 39.64	C
MOTA	10801	CB			413		100.061	69.050	1.00 39.85	C
ATOM	10804	CG	GLN	C	413	69.160	100.752	69.130	1.00 40.39	C
MOTA	10807	CD			413	70.065	100.359	67.981	1.00 41.42	C
										•

ATOM	10808	OE1	GLN	C	413		70 388	101.181	67 112	1 00	41 00		
ATOM	10809		GLN				70.463		67.112 67.961	1.00			0
ATOM	10812	C	GLN					100.517		1.00			N
ATOM.	10813	ŏ	GLN					100.317	69.745	1.00			· C
ATOM	10814	N							68.918	1.00			. 0
ATOM	10814		ASP				64.517		70.269		37.13		. N.
		CA	ASP				63.091		70.068	1.00			С
ATOM	10818	CB	ASP				62.430		69.769	1.00			С
ATOM	10821	CG			414		60.990		69.258	1.00	36.99		C
MOTA	10822		ASP				60.686		68.493	1.00			0
MOTA	10823		ASP				60.094		69.556	1.00	39.00		0
MOTA	10824	C			414			100.505	71.335	1.00	35.41		С
MOTA	10825	0	ASP				61.839		72.131	1.00	35.23		. 0
MOTA	10826	N			415		62.872	101.776	71.522	1.00	34.39	•	N
MOTA	10828	CA			415		62.339	102.570	72.629	1.00			
MOTA	10830	CB	\mathtt{GLN}	С	415		62.682	104.044	72.436	1.00	33.86		. C
ATOM	10833	CG	GLN	С	415		62.339	104.583	71.048		35.40		Č
ATOM	10836	CD	GLN	С	415		62.266	106.094	71.022	1.00			č
ATOM	10837	OE1	GLN	С	415			106.742	72.048	1.00			ŏ
ATOM	. 10838	NE2	GLN	С	415			106.672	69.860	1.00			Ň
MOTA	10841	C	GLN	С	415			102.451	72.799	1.00			Ĉ
MOTA	10842	0			415			102.422	73.927	1.00			ŏ
MOTA	10843	N			416	•		102.362	71.683	1.00			N
MOTA	10845	CA	LEU	C	416		58.622	102.381	71.682	1.00			C
MOTA	10847	CB			416			102.868	70.329	1.00			c
ATOM	10850	CG			416			104.381	70.082	1.00			c
ATOM	10852		LEU				57 722	104.728	68.657	1.00			Č
ATOM	10856	CD2						105.197	71.141	1.00			C.
ATOM	10860	C			416		57 962	101.053	72.001	1.00			C
ATOM	10861	ŏ			416			100.887	71.787				С
MOTA		. N '	ARG			•		100.387	72.530	1.00			0
ATOM	10864	CA	ARG				58.312			1.00			N
ATOM	10866	CB	ARG				59.532		72.691	1.00			C
ATOM	10869	CG	ARG						72.832	1.00			C
ATOM	10872	CD	ARG				59.152		72.839	1.00			C
MOTA	10875	NE					60.296		72.695	1.00			С
ATOM	10877	CZ	ARG				59.780		72.736	1.00		•	N
ATOM	10878		ARG ARG				59.188		71.728	1.00			C
ATOM	10878						59.039		70.562	1.00			N
ATOM	10884	C	ARG				58.759		71.884	1.00			N
ATOM	10885		ARG				57.446		73.935	1.00			C
		0	ARG				56.313		73.891	1.00		•	0
MOTA	10886	N	PHE		418		58.001		75.050	1.00			N
MOTA	10888	CA	PHE				57.244	99.151	76.292	1.00			С
ATOM ATOM	10890 10893	CB	PHE				58.124	99.790	77.366	1.00			С
		CG	PHE				57.465	99.951	78.695	1.00			C
ATOM ATOM	10894	CDI	PHE	0	418		56.972		79.379	1.00			С
ATOM	10896		PHE	0	418		56.381	99.019	80.637	1.00			С
ATOM	10898	CZ	PHE					100.272	81.214	1.00			С
	10900	CEZ	PHE	C	418			101.363	80.532	1.00			С
ATOM	10902		PHE					101.200	79.288	1.00			С
ATOM	10904	C	PHE				55.865	99.856	76.101	1.00			C
MOTA	10905	0	PHE				54.833	99.207	76.253	1.00	24.89		0
ATOM	10906	N	PRO					101.136	75.726	1.00	23.51		N
ATOM	10907	CA	PRO	C	419			101.788	75.485	1.00			С
ATOM	10909	СВ	PRO					103.158	74.911	1.00	22.79		С
ATOM	10912	CG	PRO					103.140	74.728	1.00	22.59		C
MOTA	10915	CD	PRO					102.053	75.499	1.00		•	C
ATOM	10918	C	PRO					101.003	74.512	1.00			C
ATOM	10919	0	PRO					100.964	74.739	1.00	21.78		ŏ
ATOM	10920	N	ARG					100.364	73.489	1.00			N
MOTA	10922	CA	ARG				53.374	99.531	72.612	1.00	23.38		C
MOTA	10924	CB	ARG	С	420		54.168	98.976	71.439	1.00			Č

ATOM	10927 10930		ARG		420 420	54.203 55.015	99.911	70.269	1.00 26.56 1.00 30.48	C
ATOM ATOM	10930	NE	ARG ARG		420		99.395 100.353	69.093 67.994	1.00 30.48	C N
ATOM	10935	CZ	ARG		420		100.877	67.508	1.00 35.20	C
ATOM	10936		ARG		420		100.526	68.022	1.00 37.26	Ŋ
ATOM	10939	NH2	ARG	С	420		101.755	66.508	1.00 35.48	N
MOTA	10942	С	ARG		420	52.690		73.340	1.00 23.13	С
MOTA	10943	0	ARG			51.501		73.181	1.00 23.66	0
MOTA	10944	N	MET			53.427	97.613	74.123	1.00 22.82	N
MOTA	10946	CA	MET		421	52.833		74.923	1.00 23.10	C
MOTA	10948	CB	MET		421	53.911		75.737	1.00 23.53	C
ATOM ATOM	10951 10954	CG SD	MET MET			54.814 56.279		74.908 75.816	1.00 24.77 1.00 25.81	C S
ATOM	10955	CE	MET			55.712		76.830	1.00 25.81	C
ATOM	10959	C	MET		421	51.756		75.914	1.00 22.88	č
MOTA	10960	Õ	MET			50.753		76.104	1.00 22.80	Ö
MOTA	10961	N	LEU	С	422	51.977		76.583	1.00 22.36	N
MOTA	10963	CA	LEU			51.009		77.541	1.00 22.39	С
MOTA	10965	CB	LEU			51.574		78.335	1.00 23.02	C
MOTA	10968	CG	LEU			52.762		79.273	1.00 23.86	CC
ATOM	10970	CD1					100.881	79.647	1.00 24.96	C
	10974		LEU			52.356		80.491	1.00 23.97	C
ATOM ATOM	10978 10979	C	LEU		422	49.721 48.625		76.849 77.408	1.00 22:31	C 0
ATOM	10979	O N	MET			49.850		75.641	1.00 22.34 1.00 21.88	Ŋ
ATOM	10982	CA	MET				100.067	74.869	1.00 21.52	C
ATOM	10984	CB			423		100.766	73.558	1.00 22.01	č
ATOM	10987	CG	MET				102.117	73.701	1.00 24.76	C
ATOM	10990	SD			423		103.496	74.017	1.00 31.13	S
MOTA	10991	CE			423	48.560	103.343	75.702	1.00 33.55	С
ATOM	10995	С			423	47.827		74.539	1.00 20.24	C
ATOM	10996	0			423	46.648		74.349	1.00 19.37	0
ATOM	10997	N			424	48.413		74.440	1.00 19.65	N
MOTA MOTA	10999 11001	CA CB			424 424	47.597 48.463		74.262 73.967	1.00 20.04 1.00 20.40	
ATOM	11001	CG			424	49.280		72.697	1.00 20.40	, c
ATOM	11003	CD			424	48.381		71.561	1.00 23.11	C
ATOM	11010	CE			424	49.066		70.262	1.00 25.92	C
ATOM	11013	NZ			424	48.621		69.295	1.00 27.86	N
ATOM	11017	C	LYS	С	424	46.643		75.439	1.00 19.40	С
MOTA	11018	0			424	45.559		75.216	1.00 19.42	0
MOTA	11019	N	LEU		425	47.035		76.664	1.00 18.89	N
ATOM	11021	CA			425	46.104		77.786	1.00 19.22	C
ATOM	11023	CB			425	46.748		79.113	1.00 19.39	C
ATOM ATOM	11026 11028	CG	LEU		425	48.042 48.628		79.577 80.790	1.00 20.01 1.00 20.39	
ATOM	11020		LEU			47.800		79.833	1.00 20.39	C
ATOM	11036	C			425	44.90		77.495	1.00 20.00	č
ATOM	11037	Ö			425	43.77		77.841	1.00 20.43	ő
MOTA	11038	N			426	45.11		76.877	1.00 18.93	N
MOTA	11040	CA			426	43.998		76.508	1.00 18.25	С
ATOM	11042	CB			426	44.463		75.869	1.00 17.72	С
MOTA	11044		VAL			43.30		75.634	1.00 17.87	С
ATOM	11048		VAL			45.43		76.728	1.00 17.62	C
MOTA	11052	C			426	43.06		75.544	1.00 18.59	C
MOTA MOTA	11053 11054	N O			426 427	41.869 43.589		75.740 74.522	1.00 18.88	0
ATOM	11054	CA			427	42.76		73.626	1.00 18.98 1.00 19.96	N C
ATOM	11058	CB			427	43.61		72.494	1.00 19.96	C
ATOM	11061	OG			427	44.16		71.753	1.00 23.61	ő
ATOM	11063	C			427	42.05		74.305	1.00 20.13	C

MOTA	11064	0	SER	С	427	40.925	95.759	73.969	1.00	20.62	0)
MOTA	11065	N	· LEU	С	428	42.718	95.405	75.249		20.31	N	
ATOM	11067	CA	LEU	С	428	42.133	94.265	75.939		20.50	Ċ	
MOTA	11069	СВ	LEU	С	428	43.143	93.575	76.818		20.04	Č	
MOTA	11072	CG	LEU			44.127	92.748	75.990		20.36	0	
MOTA	11074	CD1	LEU			45.361	92.391	76.836		20.66	Č	
MOTA	11078		LEU			43.481	91.488	75.392		19.60	Č	
ATOM	11082	С	LEU			40.932	94.658	76.778		21.54		
ATOM	11083	0	LEU			40.072	93.821	77.048		22.14	. 0	Ś
ATOM	11084	N	ARG			40.836	95.929	77.155		22.26	N	
ATOM	11086	CA	ARG			39.649	96.408	77.855		22.80		,
ATOM	11088	CB	ARG			39.888	97.775 .			22.76		
ATOM	11091	.CG	ARG			40.774	97.734	79.595		22.71		<u>'</u> ·
ATOM	11094	CD	ARG			40.192	97.040	80.807		22.42	Ċ	
ATOM	11097	NE	ARG			41.209	97.025	81.856		21.48	. и	,
ATOM	11099	CZ	ARG			41.181	97.742	82.964		18.67	C	
ATOM	11100		ARG			40.154	98.517	83.256		18.19	Ŋ	
ATOM	11103		ARG			42.184	97.631	83.811		19.10	N N	
ATOM	11106	C	ARG			38.472	96.516			23.20		
ATOM	11107	ō	ARG			37.347	96.174	77.309		24.13		΄.
	11108	N	THR			38.708	97.050	75.741		23.13		
ATOM	11110	CA	THR			37.625	97.177	74.792		23.13	N C	
ATOM	11112	CB	THR			38.035	98.089	73.602		24.17	C	(
ATOM	11114	OG1				38.077	99.451	74.041		24.20	C	(
ATOM	11116	CG2				36.957	98.078	72.485		24.77		
ATOM	11120	c	THR			37.213	95.773	74.332		23.10	C	,
ATOM	11121	ŏ	THR			36.038	95.475	74.228		22.85		
MOTA	11122	N	LEU			38.178	94.896	74.095		22.68	C	
ATOM	11124	CA	LEU			37.847	93.547	73.642		22.67	. N	
ATOM	11126	CB	LEU			39.108	92.776	73.042		22.51	C	,
ATOM	11129	CG	LEU			39.777	93.235	71.926		21.41	2	,
ATOM	11131		LEU			41.229	92.866	71.902		20.87		,
ATOM	11135				431	39.119	92.608	70.753		22.33	. 0	<u> </u>
ATOM	11139	C	LEU			37.040	92.784	74.710		22.32	Ċ	,
ATOM	11140	ŏ	LEU			36.163	92.006	74.710		21.48	O	·
ATOM	11141	N	SER			37.320	93.048	75.977		22.37	N	
ATOM	11143	CA	SER			36.553	92.468	77.084		22.86	C	1
ATOM	11145	CB	SER			37.152	92.941	78.409		22.68	·o	
ATOM	11148	OG	SER			36.399	92.501	79.500		24.39	o	
ATOM	11150	C	SER			35.060	92.824	76.994		22.96	Ċ	′
ATOM	11151	ŏ	SER			34.193	91.959	77.149		22.80	o	
ATOM	11152	N	SER			34.775	94.095	76.727		23.08		
ATOM	11154	CA	SER			33.417	94.548	76.439		23.57	N	1
ATOM	11156	СВ	SER			33.391	96.032	76.104		23.61	C	
ATOM	11159	ŌĞ	SER			33.570	96.801	77.267		27.21	C	
ATOM	11161	C.	SER			32.809	93.845	75.263		23.69		
ATOM	11162	Ö	SER			31.679	93.410	75.333		24.17	. 0	
MOTA	11163	N	VAL			33.543	93.770	74.158		23.72	O	
MOTA	11165	CA	VAL			33.012	93.189	72.947		23.55	N	
ATOM	11167	CB	VAL			34.014	93.293	71.790		23.82	. C	,
ATOM	11169		VAL			33.522	92.577	70.549		24.73		,
ATOM	11173		VAL			34.210	94.724	71.434		23.97	C	,
ATOM .	11177	C	VAL			32.630	91.752	73.247		23.22	d	
ATOM	11178	ŏ	VAL			31.640	91.258	72.725		23.33		
ATOM	11179	N.	HIS			33.381	91.105	74.134		23.33	. N	1
ATOM	11181	CA	HIS			33.095	89.722	74.541		23.17		
ATOM	11183	CB	HIS			34.271	89.100	75.309		22.54	C	,
ATOM	11186	CG			435	33.997	87.712	75.770		21.09	. 0	
MOTA	11187		HIS			33.873	87.382	77.097		20.17	. N	
ATOM	11189	CE1	HIS	č	435	33.587	86.100	77.207		20.17	C	
MOTA	11191	NE2	HIS	ď	435	33.481	85.596	75.995		21.20	N	
				-							IN.	•

MOTA	11193	CD2	HIS	C	435	33.732	86.585	75.078	1.00 21.14	~
ATOM	11195	C	HIS			31.795	89.622	75.358	1.00 23.30	C
ATOM	11196	Ō	HIS			30.950	88.751	75.106	1.00 23.08	Ö
ATOM	11197	N	SER			31.624	90.523	76.313	1.00 23.61	N
ATOM	11199	CA	SER		436	30.348	90.644	77.026	1.00 24.19	C
ATOM	11201	CB	SER			30.412	91.801	78.033	1.00 23.96	C
ATOM	11204	OG	SER			31.376	91.512	79.061	1.00 25.95	0
ATOM	11206	C	SER			29.137	90.794	76.086	1.00 24.55	C
ATOM	11207	ŏ	SER			28.107	90.189	76.304	1.00 24.85	Ö
ATOM	11208	N	GLU			29.270	91.566	75.018	1.00 25.17	Ŋ
ATOM	11210	CA	GLU			28.182	91.721	74.060	1.00 25.38	Č
MOTA	11212	CB	GLU			28.445	92.896	73.113	1.00 26.09	Č
ATOM	11215	CG	GLU			28.585	94.242	73.846	1.00 29.84	Č
MOTA	11218	CD			437	29.059	95.406	72.951	1.00 35.02	č
MOTA	11219	OE1				28.537	96.536	73.136	1.00 38.26	ō
MOTA	11220	OE2	GLU			29.945	95.214	72.065	1.00 37.73	Ö
MOTA	11221	С			437	27.946	90.439	73.280	1.00 24.04	Ċ
ATOM	11222	0			437	26.836	90.146	72.933	1.00 24.34	ō
MOTA	11223	N			438	28.991	89.682	73.011	1.00 23.03	N
MOTA	11225	CA			438	28.870	88.392	72.345	1.00 22.31	C
ATOM	11227	CB	GLN	С	438	30.260	87.855	72.023	1.00 22.24	Ċ
MOTA	11230	CG	GLN	С	438	30.306	86.428	71.474	1.00 21.39	С
MOTA	11233	CD	GLN	С	438	29.680	86.321	70.112	1.00 21.22	С
ATOM	11234	OE1	GLN	С	438	30.380	86.346	69.096	1.00 21.68	0
MOTA	11235	NE2	GLN			28.363	86.200	70.077	1.00 20.20	N
ATOM	11238	C			438	28.170	87.374	73.209	1.00 22.57	С
MOTA	11239	0			438	27.448	86.542	72.707	1.00 22.01	0
ATOM	11240	N			439	28.427	87.425	74.514	1.00 23.28	N
ATOM	11242	CA			439	27.872	86.477	75.476	1.00 23.42	C
ATOM	11244	CB			439	28.555	86.642	76.880	1.00 23.00	C
MOTA	11246		VAL			27.799	85.909	77.962	1.00 22.05	C
ATOM	11250					29.994	86.150	76.831	1.00 22.25	С
MOTA	11254	С			439	26.369	86.703	75.560	1.00 24.45	С
MOTA	11255	0			439	25.580	85.759	75.508	1.00 24.80	0
ATOM	11256	N			440	25.996	87.972	75.683	1.00 25.55	N
ATOM	11258	CA			440	24.601	88.411	75.700	1.00 26.37	C
ATOM	11260	CB	PHE		440	24.529	89.929	75.994	1.00 26.69	C
ATOM	11263	CG	PHE		440	23.247	90.599	75.550	1.00 29.64	C
ATOM ATOM	11264 11266		PHE PHE			22.212 21.032	90.846	76.475	1.00 31.80	C
ATOM	11268	CZ			440	20.858	91.452 91.834	76.082 74.742	1.00 31.89 1.00 33.13	C
ATOM	11270		PHE			21.869	91.605	73.808	1.00 33.13	C
ATOM	11272		PHE		440	23.072	91.000	74.217	1.00 32.33	C C
ATOM	11274	C			440	23.925	88.041	74.378	1.00 26.30	C
ATOM	11275	Ö			440	22.802	87.550	74.383	1.00 26.75	0
ATOM	11276	N			441	24.602	88.260	73.256	1.00 26.40	N
MOTA	11278	CA			441	24.084	87.849	71.937	1.00 26.57	Ĉ
MOTA	11280	CB			441	25.089	88.169	70.814	1.00 26.19	č
MOTA	11284	С			441	23.737	86.366	71.910	1.00 26.95	Č
MOTA	11285	0			441	22.739	85.974	71.341	1.00 27.04	Ō
MOTA	11286	N	LEU	С	442	24.563	85.553	72.548	1.00 27.68	Ŋ
MOTA	11288	CA	LEU	С	442	24.405	84.115	72.513	1.00 28.09	C
MOTA	11290	CB			442	25.705	83.446	72.953	1.00 28.18	С
MOTA	11293	CG			442	26.805	83.488	71.897	1.00 27.85	С
MOTA	11295		LEU			28.176	83.211	72.498	1.00 26.93	C
MOTA	11299		LEU			26.486	82.474	70.801	1.00 29.66	C
MOTA	11303	С			442	23.246	83.654	73.383	1.00 28.80	C
MOTA	11304	0			442	22.641	82.644	73.101	1.00 28.43	0
MOTA	11305	N			443	22.943	84.404	74.436	1.00 30.18	N
MOTA	11307	CA			443	21.785	84.137	75.303	1.00 31.15	С
ATOM	11309	CB	ARG		443	21.807	85.082	76.515	1.00 31.37	С

MOTA	11312	CG	ADC	\sim	443	23.031	04 010	77 410	1 ^^	22 65			•	_
							84.919	77.410		33.62				С
ATOM .		CD	ARG		443	22.787	85.087	78.902		36.68				C
MOTA	11318	NE	ARG	С	443 .	21.711	84.218	79.389	1.00	38.98			-	N ·
MOTA	11320	CZ	ARG	C	443 .	21.560	83.799	80.649		40.80				c
ATOM	11321	NH1	ARG	C	443 ·	22.414	84.141	81.614		41.65				
ATOM	11324		ARG				83.023				•	•		N.
						20.527		80.944		41.03				N
ATOM	11327	С			443	20.461	84.303	74.550	1.00	31.48				C
MOTA	11328	0	ARG	С	.443	19.476	83.632	74.832	1.00	31.71				0
ATOM	11329	N	LEU	С	444	20.440	85.216	73.593		32.22		•		NT.
ATOM	11331	CA	LEU		444	19.275	85.391			22.22				N
								72.735		32.49				C
MOTA	11333	CB	LEU			19.263	86.791	72.088		32.71				С
MOTA	11336	CG			444	19.608	88.050	72.915	1.00	33.52				С
ATOM	11338	CD1	LEU	С	444	19.703	89.258	71.979	1.00	33.88			-	C
ATOM	11342	CD2	LEU		444	18.645	88.336	74.081		33.13				č
ATOM	11346	C			444	19.174	84.304			30.13				~
								71.650		32.21			•	C
MOTA	11347	0			444	18.157	84.220	71.011	1.00	32.73		•		0
ATOM	11348	N	GLN	С	445	20.207	83.495	71.422	1.00	32.00				N
ATOM	11350	CA	GLN	С	445	20.088	82.295	70.574		32.03				С
ATOM	11352	CB				21.333	82.109	69.714		32.11				č
ATOM	11355	CG			445	21.583					•			_
							83.152	68.654		32.95				С
ATOM	11358	CD			445	23.080	83.312	68.378	1.00	35.56		_		C
MOTA	11359	OE1	GLN	С	445	23.633	84.409	68.550	1.00	37.57		•		0
MOTA	11360	NE2	GLN	С	445	23.747	82.212	67.993		35.16				N
ATOM	11363	С			445	19.881	81.006	71.400		32.02				74
ATOM														C
	11364	0			445	20.138	79.892	70.920		31.71				0
ATOM	11365	N			446	19.411	81,174	72.637	1.00	32.13				N
ATOM	11367	CA	ASP	С	446	19.342	80.111	73.653	1.00	32.17				С
ATOM	11369	CB	ASP	С	446	18.143	79.189	73.380		32.55				C
ATOM	11372	CG			446	16.862	79.694	74.031		34.14				\tilde{c}
MOTA	11373		ASP		446									С
						16.670	80.933	74.083		35.83				0
ATOM	11374				446.	15.992	78.929	74.510	1.00	35.63				0
ATOM	. 11375	С	ASP	С	446	20.627	79.286	73.866	1.00	31.43				С
ATOM	11376	0	ASP	С	446	20.552	78.140	74.286		32.15				Ō
ATOM	11377	N	LYS			21.793	79.869	73.592		30.34				
ATOM	11379	CA	LYS			23.091								N
							79.250	73.891		29.31				С
MOTA	11381	CB	LYS			24.023	79.305	72.675		29.61				С
MOTA	11384	CG	LYS	С	447	23.320	78.828	71.384	1.00	32.16				С
ATOM	11387	CD	LYS	С	447	24.207	77.982	70.451		34.89				0000
ATOM	11390	CE	LYS			24.630	78.733	69.176		35.99				č
ATOM	11393	NZ	LYS			26.113	78.642							
	11397							68.909		36.81	-			N
ATOM		C	LYS			23.687	79.970	75.089		27.49				С
ATOM	11398	0	LYS	С	447	24.207	81.067	74.960	1.00	26.86				0
ATOM	11399	N	LYS	С	448	23.566	79.337	76.260	1.00	25.77				N
MOTA	11401	CA	LYS	С	448	23.990	79.901	77.547		24.04				C
ATOM	11403	CB	LYS			22.863	79.739	78.584		24.27				\tilde{a}
ATOM														С
	11406	CG	LYS			21.498	80.363	78.155		25.53		•		С
MOTA	11409	CD	LYS			20.343	80.087	79.162	1.00	26.43				С
ATOM	11412	CE	LYS	С	448	18.949	79.916	78.473	1.00	26.81				С
MOTA	11415	NZ	LYS	С	448	17.814	79.670	79.440		25.41				Ň
ATOM	11419	C	LYS	Č	118	25.278	79.239	78.044						
ATOM	11420		LYS							21.92				С
		0				25.595	78.115	77.704		21.75				0
MOTA	11421	N	LEU			26.031	79.947	78.857	1.00	19.78				N
ATOM	11423	CA	LEU	С	449	27.305	79.422	79.319	1.00	18.23				С
MOTA	11425	CB	LEU	С	449	28.199	80.556	79.849		18.32				Č
ATOM	11428	CG	LEU			28.668	81.644	78.858		18.67				č
ATOM	11430		LEU											C
						29.337	82.783	79.629		20.33				С
MOTA	11434		LEU			29.635	81.123	77.812		18.73				С
ATOM	11438	С	LEU	C	449	27.085 °	78.365	80.390	1.00	16.30				С
ATOM	11439	0	LEU	С	449	26.057	78.370	81.055		16.20				ō
ATOM	11440	N	PRO			28.045	77.461	80.551		14.39				N
ATOM								J . J J L		エマ・コラ				LA
	11441	CA	PRO	C	450	28 በበግ	76 192	81 621	1 00	13 5/				
	11441	CA	PRO	С	450	28.007	76.492	81.634	1.00	13.54				С

MOTA MOTA	11443 11446	CB CG	PRO PRO		450 450	28.971 29.946	75.405 76.115	81.153 80.341	1.00 13.19 1.00 13.88	C
ATOM	11449		PRO	C	450	29.242	77.273	79.717	1.00 14.55	Č
ATOM	11452	С	PRO	С	450	28.494	77.134	82.922	1.00 13.00	С
MOTA	11453	0	PRO			29.233	78.116	82.862	1.00 12.36	0
MOTA	11454	N	PRO			28.119	76.569	84.064	1.00 12.74	N
MOTA	11455	CA	PRO			28.390	77.181	85.377	1.00 13.15	С
MOTA	11457	СВ	PRO			28.197	76.012	86.336	1.00 12.67	c
MOTA	11460	CG	PRO			27.162	75.186	85.671	1.00 12.39	C
ATOM	11463	CD	PRO			27.439	75.269	84.197	1.00 12.16	C
MOTA	11466	C	PRO			29.772	77.833	85.611	1.00 14.02	O C
MOTA	11467	0	PRO LEU			29.823 30.867	78.916 77.208	86.195 85.183	1.00 13.72 1.00 14.95	N
ATOM ATOM	11468 11470	N CA	LEU			32.181	77.200.	85.516	1.00 14.93	C
ATOM	11470	CB	LEU			33.287	76.744	85.169	1.00 16.26	Č
ATOM	11475	CG	LEU			34.560	77.001	86.002	1.00 19.48	Č
ATOM	11477		LEU			34.435	76.290	87.347	1.00 21.20	Č
ATOM	11481		LEU			35.849	76.582	85.298	1.00 21.90	C
ATOM	11485	С	LEU			32.454	79.050	84.810	1.00 15.44	C
MOTA	11486	0	LEU	С	452	33.200	79.885	85.315	1.00 15.20	0
MOTA	11487	N	LEU			31.882	79.190	83.618	1.00 15.57	N
MOTA	11489	CA	LEU			32.088	80.352	82.774	1.00 15.79	С
MOTA	11491	CB	LEU			32.095	79.949	81.291	1.00 15.70	C
MOTA	11494	CG			453	33.186	78.997	80.762	1.00 14.82	C
ATOM	11496		LEU			33.164	78.838	79.217	1.00 14.87	C
MOTA	11500		LEU		453	34.546	79.476 81.371	81.193 83.009	1.00 15.29 1.00 16.75	C C
ATOM	11504	C O			453	31.000 31.170	82.565	82.744	1.00 16.75	0
MOTA MOTA	11505 11506	N			454	29.864	80.893	83.497	1.00 10.25	N
ATOM	11508	CA			454	28.758	81.777	83.832	1.00 19.00	Č
ATOM	11510	CB			454	27.495	80.975	84.056	1.00 18.44	Ċ
ATOM	11513	ŌĞ			454	26.560	81.783	84.708	1.00 18.44	0
ATOM	11515	С			454	29.094	82.637	85.065	1.00 20.30	С
MOTA	11516	0	SER	С	454	28.771	83.825	85.101	1.00 20.38	0
MOTA	11517	N			455	29.771	82.055	86.057	1.00 21.99	N
MOTA	11519	CA			455	30.186	82.805	87.242	1.00 23.44	C
MOTA	11521	CB			455	31.020	81.935	88.193	1.00 24.37	C
ATOM	11524	CG			455	31.392	82.607	89.521	1.00 27.84	C
ATOM	11527	CD			455	30.268	82.622	90.581	1.00 32.12	0
MOTA	11528		GLU GLU			29.127 30.541	82.143 83.124	90.322 91.705	1.00 34.44 1.00 35.01	0
ATOM	11529 11530	C			455	30.993	84.008	86.802	1.00 33.01	Č
ATOM ATOM	11531	Ö			455	30.777	85.112	87.282	1.00 23.44	ő
MOTA	11532	N			456	31.910	83.788	85.866	1.00 24.06	N
ATOM	11534	CA		-	456	32.804	84.853	85.416	1.00 24.51	C
ATOM	11536	CB			456	34.000	84.334	84.600	1.00 24.80	С
ATOM	11538		ILE			34.763	83.221	85.304	1.00 25.39	С
MOTA	11541	CD1	ILE	С	456	35.648	82.435	84.325	1.00 26.47	C
MOTA	11545	CG2	ILE			34.976	85.449	84.402	1.00 26.30	C
MOTA	11549	С			456	32.103	85.903	84.571	1.00 24.01	C
MOTA	11550	0			456	32.354	87.069	84.791	1.00 24.09	0
MOTA	11551	N			457	31.239	85.491	83.634	1.00 23.70	И
MOTA	11553	CA			457	30.848 31.240	86.330	82.487 81.163	1.00 23.66 1.00 22.92	C C
ATOM	11555	CB			457	31.240	85.660 85.571	80.944	1.00 22.92	C
ATOM ATOM	11558 11559	CG CD1	TRP		457 457	33.641	86.438	81.379	1.00 21.52	C
ATOM	11561		TRP			34.889	86.017	81.000	1.00 21.44	N
ATOM	11563		TRP			34.770	84.852	80.299	1.00 20.54	Ċ
MOTA	11564		TRP			33.410	84.535	80.249	1.00 21.29	С
ATOM	11565		TRP			33.021	83.361	79.577	1.00 21.81	C
MOTA	11567		TRP			33.995	82.561	78.984	1.00 20.80	С
						···				

ATOM	11569	CH2	TRP	С	457	35.34	2	82.912	79.050	1 00	22.02		
MOTA	11571	CZ2	TRP			35.75		84.054	79.706		21.84		C
MOTA	11573	.C			457	29.38		86.772	82.376		24.59		Č
MOTA	11574	0			457	29.10		87.719	81.658		25.61		0
MOTA	11575	N			458	28.44		86.136	83.051	1.00	25.15		N
MOTA	11577	CA			458	27.04		86.483	82.822		25.63		С
ATOM	11579	CB			458	26.11		85.302	83.133		25.67		С
ATOM	11582	CG			458	26.09		84.253	82.027		25.36		С
ATOM ATOM	11583 11584		ASP ASP			25.89 26.24		84.555	80.820		24.47		0
ATOM	11585	C			458	26.67		83.062 87.673	82.305 83.676		26.12		0
ATOM.	11586	Ö			458	27.02		87.696	84.848		26.06 27.02		C
ATOM	11587		444			39.28		80.254	75.403		48.16		0
ATOM	11588		444			39.77		80.845	74.203		46.50		s
ATOM	11589		444			41.21		81.038	74.217		48.57		Ö.
MOTA	11590	C01	444	С	500	39.45		79.745	72.851		48.48		Ċ.
MOTA	11591		444			40.47		79.528	71.857		50.39		C
ATOM	11593		444			40.20		78.677	70.760	1.00	51.15		C
MOTA	11595		444			38.93		78.063			51.42		С
ATOM	11597		444			37.92		78.301	71.643		51.23	•	С
ATOM ATOM	.11599 11601		444			38.17		79.156	72.744		49.18		С
ATOM	11601		4444444			38.84 39.24		82.286 82.987	73.738		37.44		N
ATOM	11605		444			39.45		84.483	72.414 72.598		34:73 33.95		C
ATOM	11606		444			39.95		85.057	71.481		32.52		F
MOTA	11607		444			40.29		84.801	73.592		32.47		F
MOTA	11608		444			38.31		85.094	72.919		33.30		F
MOTA	11609		444			37.37		82.286	73.914		30.68	•	Ĉ
MOTA	11610		444			36.88		82.707	75.167		27.90		Ċ
MOTA	11612		444			35.50		82.756	75.423		25.92		C .
ATOM	11614		444			36.42		81.910	72.894		27.94		С
ATOM	11616		444			35.03	8	81.954	73.152		24.86		C
MOTA MOTA	11618 11619		444			34.53		82.386	74.419		23.01		C
ATOM	11620		4444444			33.03 32.12		82.455 83.103	74.834 73.773		21.39		C
ATOM	11621		444			30.82		83.196	74.160		23.09 25.25		C F
ATOM	11622		444			32.50		84.349	73.501		24.47		F
ATOM	11623		444			32.17		82.499	72.577		23.98		F
ATOM	11624		444			32.81		83.068	76.132		19.34		ō
MOTA	11626		444			32.55	5	81.023	75.003		21.35		C
MOTA	11627		444			33.05		80.224	74.045		20.88		F
ATOM	11628		444			33.01		80.546	76.167		22.16		F
ATOM ATOM	11629 11630	P41 N	444 LEU	0	500	31.22		80.824	75.072		22.76		F
ATOM	11632	CA						18.262	74.238 73.082		20.17		N
ATOM	11634	CB			220	61.78	7 I	18.487	73.472		20.88		C
ATOM	11637	CG			220			17.814	74.673		22.88		C
ATOM	11639		LEU					18.775	75.506		23.53		Ċ
ATOM	11643	CD2	LEU	D	220			16.601	74.204		24.10		č
ATOM	11647	C.			220	63.63	0 1	.18.974	71.849		20.24		Ċ
ATOM	11648	0			220			.20.062	71.943	1.00	19.45		0
MOTA	11651	N			221			18.463	70.699		20.07		N
ATOM ATOM	11653	CA			221			.19.110	69.398		19.70		C
ATOM	11655. 11657	CB OG1	THR THR					.18.039	68.248		19.86	•	C
ATOM	11659	CG2						.17.533 .16.776	68.250 68.470		17.93		0
ATOM	11663	C			221			.20.275	69.233		19.27 19.83		C
MOTA	11664	ō			221			20.214	69.745		19.99		0
ATOM	11665	N			222			21.315	68.501		19.56	•	И
MOTA	11667	CA	ALA	D	222			.22.401	68.071		19.50		Ĉ
MOTA	11669	CB	ALA	D	222	62.49	6 1	.23.189	66.914		19.19		č

ATOM	11673	С	ALA				121.901	67.654	1.00 19.70	С
MOTA	11674	0	ALA				122.539	67.958	1.00 19.07	0
MOTA	11675	N	ALA				120.770	66.946	1.00 19.78	N
ATOM	11677	CA	ALA				120.239	66.365	1.00 20.35	C
ATOM ATOM	11679 11683	CB C	ALA ALA				119.252 119.569	65.263 67.428	1.00 20.37 1.00 21.69	. C
ATOM	11684	Ö	ALA				119.455	67.248	1.00 21.09	
ATOM	11685	Ŋ	GLN				119.090	68.519	1.00 22.23	N
ATOM	11687	CA	GLN				118.471	69.621	1.00 22.06	Č
ATOM	11689	CB	GLN				117.536	70.420	1.00 22.22	C
ATOM	11692	CG	GLN	D	224	59.198	116.092	69.897	1.00 21.63	С
ATOM	11695	CD	GLN				115.250	70.715	1.00 20.75	C
ATOM	11696	OE1					115.751	71.089	1.00 17.25	0
ATOM	11697	NE2	GLN				113.985	71.000	1.00 19.61	Ŋ
MOTA	11700	C	GLN				119.565	70.533	1.00 22.14	C
MOTA	11701	0	GLN		225		119.426	71.084	1.00 21.67	0
ATOM ATOM	11702 11704	N CA	GLU				120.650 121.845	70.662 71.327	1.00 22.21 1.00 22.89	. С
MOTA	11704	CB			225		122.868	71.327	1.00 23.15	C
ATOM	11709	CG			225		122.424	72.216	1.00 25.60	Č
ATOM	11712	CD			225		123.017	73.609	1.00 28.92	č
MOTA	11713	OE1	GLU	D	225	59.079	123.047	74.201	1.00 30.22	0
MOTA	11714	OE2	GLU	D	225	61.285	123.459	74.087	1.00 30.46	0
MOTA	11715	С			225		122.484	70.576	1.00 23.00	С
ATOM	11716	0			225		123.014	71.190	1.00 23.62	0
ATOM	11717	N			226		122.478	69.246	1.00 22.91	N
ATOM	11719	CA			226		123.087	68.419	1.00 22.54	. C
ATOM ATOM	11721 11724	CB CG			226 226		123.049 123.602	66.920 65.874	1.00 22.44 1.00 21.51	C
ATOM	11724		LEU				125.002	65.911	1.00 21.31	C
ATOM	11730		LEU				123.149	64.472	1.00 21.32	Č
ATOM	11734	c			226		122.298	68.684	1.00 22.31	Č
MOTA	11735	0			226		122.859	68.991	1.00 21.87	Ō
ATOM	11736	N	MET	D	227	54.658	120.982	68.605	1.00 22.30	N
MOTA	11738	CA			227		120.070	68.740	1.00 22.44	C
MOTA	11740	CB			227		118.643	68.560	1.00 22.58	C
MOTA	11743	CG			227		117.601	68.927	1.00 25.04	C
ATOM ATOM	11746 11747	SD CE			227 227		115.999 115.735	69.121 67.302	1.00 30.41 1.00 28.56	S C
ATOM	11751	CE			227		120.209	70.088	1.00 28.36	C
ATOM	11752	Ö			227		120.213	70.149	1.00 21.90	Ö
ATOM	11753	N			228		120.324	71.158	1.00 21.49	й
ATOM	11755	CA			228		120.394	72.530	1.00 20.69	Ċ
MOTA	11757	CB			228		120.087	73.578	1.00 20.40	C
MOTA	11759	CG1					118.623	73.467	1.00 19.82	C
MOTA	11762		ILE				118.356	74.007	1.00 19.30	C
ATOM	11766		ILE				120.351	74.990	1.00 19.35	· C
ATOM	11770	C			228		121.740	72.823	1.00 20.46	C
ATOM ATOM	11771 11772	N O			228 229		121.802 122.814	73.339	1.00 20.39	0
ATOM	11774	CA			229		124.151	72.480 72.667	1.00 20.51 1.00 20.98	N C
ATOM	11776	CB			229		125.192	72.259	1.00 20.36	C
ATOM	11779	CG			229		125.276	73.219	1.00 23.14	č
ATOM	11782	CD			229		126.348	72.835	1.00 25.43	č
MOTA	11783	OE1			229	55.481	127.379	72.278	1.00 26.43	Ō
MOTA	11784					57.127	126.117	73.147	1.00 26.80	N
ATOM	11787	C			229		124.356	71.862	1.00 20.82	С
ATOM	11788	0			229		125.119	72.250	1.00 20.41	0
ATOM	11789	N			230		123.665	70.732	1.00 20.92	N
ATOM ATOM	11791 11793	CA CB			230 230		123.763 123.070	69.878 68.529	1.00 21.20	C
							123.070	00.329	1.00 21.82	С

ATOM	11796	CG	GLN	D	230		49.702	123.825	67.353	1.00	23.74		С
MOTA	11799	CD	GLN		230			123.253	67.014		26.14		č
ATOM	11800		GLN		230			122.152	67.460		26.53		Ö
ATOM	11801	NE2	GLN	D				123.986	66.215	1.00	28.27		N
MOTA	11804	С	GLN			•		123.165	70.578		20.57		Ĉ
ATOM	11805	0	GLN		230			123.806	70.692		20.72		ŏ
ATOM	11806	N	LEU					121.937	71.060		20.16		N
ATOM	11808	CA	LEU					121.266	71.827		19.67		Ĉ
ATOM	11810	CB	LEU		231			119.871	72.246		19.77		č
ATOM	11813	CG	LEU			•		118.858	71.142		19.65	•	č
ATOM	11815		LEU					117.583	71.789		18.59		Č
ATOM	11819		LEU					118.591	70.251		19.17		C
ATOM	11823	С	LEU					122.090	73.066		19.13		С
ATOM	11824	0	LEU	D	231			122.222	73.342		18.20		0
ATOM	11825	N	VAL	D	232		48.654	122.653	73.773		18.56		N
ATOM	11827	CA.	VAL	D	232	•	48.404	123.362	75.012		18.84	,	С
ATOM	11829	CB			232			123.748	75.777	1.00	18.93	•	С
ATOM	11831	CG1	VAL				49.454	124.704	76.948		17.92		С
ATOM	11835	CG2	VAL	D	232		50.400	122.506	76.333	1.00	20.00		С
ATOM	11839	С			232			124.594	74.720		19.13	•	C.
ATOM	11840	0	VAL	D	232		46.563	124.843	75.404	1.00	19.31		0
MOTA	11841	N	ALA	D	233		47.995	125.348	73.704	1.00	19.27		N
MOTA	11843	, CA	ALA	D	233		47.355	126.586	73.291	1.00	19.37		С
MOTA	11845	CB	ALA	D	233		48.204	127.240	72.269	1.00	19.55		С
MOTA	11849	С	ALA	D	233		45.958	126.371	72.728	1.00	19.98		C
MOTA	11850	0	ALA	D	233		45.089	127.187	72.914	1.00	20.08		0
MOTA	11851	N			234		45.758	125.264	72.033	1.00	21.06		N
MOTA	11853	CA	ALA	D	234			124.889	71.456	1.00	22.23		С
ATOM	11855	CB	ALA					123.592	70.591	1.00	22.36		С
MOTA	11859	C			234			124.632	72.544	1.00	23.31		С
MOTA	11860	0			234			125.095	72.482		24.03		0
MOTA	11861	N			235			123.838	73.512	1.00	24.09		N
MOTA	11863	CA			235			123.529	74.699	1.00	24.90		С
ATOM	11865	CB			235			122.697	75.611		25.31		C
MOTA	·11868	CG			235			122.166	76.838		26.35		С
MOTA	11871	CD			235			120.682	76.988	1.00	26.06		С
ATOM	11872	OE1			235			120.189	76.890		25.19		0
ATOM	11873	NE2			235			119.967	77.242		28.28		N
ATOM	11876	C			235			124.780	75.425		25.24		С
MOTA	11877	Ο.			235		41.538	124.919	75.809		25.03		0
ATOM	11878	N			236			125.689	75.599		26.10		N
ATOM	11880	CA			236			126.942	76.297		27.26		Ç
ATOM	11882	СВ			236			127.668	76.471		27.42		C
ATOM	11885	CG		_	236			128.873	77.398		27.58		C
ATOM	11887		LEU					128.433	78.835		28.10		C
ATOM	11891		LEU					129.627	77.178		28.09		C
ATOM	11895	C			236			127.861	75.581		28.27		C.
MOTA	11896	0			236			128.566	76.228		28.34		0
ATOM	11897	N			237			127.861	74.252		29.81		N
ATOM	11899	CA			237			128.705	73.426		31.35		C
MOTA	11901	CB			237			128.976	72.061		31.48		C
MOTA	11904	CG			237			129.641	72.208		32.45		C
MOTA MOTA	. 11907 11908	CD OF1	GLN		237			130.205	70.924		31.73		C.
ATOM	11908		GLN					129.873 131.045	69.838 71.060		32.01 32.05		0
	11909										32.05		И
MOTA		C			237			128.123	73.246		-		C
ATOM	11913 11914	O M						128.827	72.802		32.45		O N
ATOM	11914	N CA			238	٠.		126.844 126.156	73.594		34.75	•	N
ATOM ATOM	11918	CB			238			124.656	73.503 73.302		36.55 36.77	•	C
ATOM	11921	SG			238			124.036	73.302		39.71		S
WI OW	******	36		ט	230		JJ.J30	162.604	11.391	1.00	J9.11		. 3
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ATOM 11995 N VAL D 249 22.728 129.089 80.179 1.00 27.32 N TOM 11997 CA VAL D 249 22.676 127.776 80.822 1.00 27.70 C T TO T												
ATOM 11997 CA VAL D 249							22 728	129.042				
ATOM 11999 CB VAL D 249 24.089 127.310 81.263 1.00 27.90 CD ATOM 12001 CG1 VAL D 249 24.052 126.476 82.555 1.00 27.79 CD ATOM 12005 CG2 VAL D 249 24.771 126.513 80.139 1.00 28.41 CD ATOM 12009 C VAL D 249 21.752 127.785 82.035 1.00 27.71 CD ATOM 12010 O VAL D 249 21.752 127.785 82.035 1.00 27.71 CD ATOM 12011 N THR D 250 21.055 126.669 82.251 1.00 27.63 NO ATOM 12013 CA THR D 250 20.052 126.550 83.310 1.00 27.53 CD ATOM 12015 CB THR D 250 19.260 125.242 83.156 1.00 27.53 CD ATOM 12015 CG2 THR D 250 19.260 125.242 83.156 1.00 27.53 CD ATOM 12019 CG2 THR D 250 18.840 125.082 81.799 1.00 27.43 CD ATOM 12019 CG2 THR D 250 17.959 125.284 83.951 1.00 27.68 CD ATOM 12023 C THR D 250 20.709 126.563 84.687 1.00 27.51 CD ATOM 12024 O THR D 250 20.709 126.563 84.687 1.00 27.51 CD ATOM 12025 N PRO D 251 20.141 127.312 85.635 1.00 27.46 NATOM 12026 CA PRO D 251 20.141 127.312 85.635 1.00 27.48 CD ATOM 12026 CA PRO D 251 20.720 127.387 86.980 1.00 27.49 CD ATOM 12026 CB PRO D 251 20.720 127.387 86.980 1.00 27.49 CD ATOM 12031 CG PRO D 251 20.720 127.387 86.980 1.00 27.49 CD ATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 CD ATOM 12034 CD PRO D 251 19.156 129.216 86.544 1.00 27.35 CD ATOM 12037 C PRO D 251 19.156 129.216 86.544 1.00 27.35 CD ATOM 12038 CD PRO D 251 19.156 129.216 86.544 1.00 27.35 CD ATOM 12038 CD PRO D 251 19.156 129.216 86.544 1.00 27.35 CD ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.69 NATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.55 CD ATOM 12043 CB TRP D 252 21.313 125.725 88.634 1.00 27.55 CD ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 CD							22.676	123.003				
ATOM 12001 CG1 VAL D 249	ATOM											C
ATOM 12005 CG2 VAL D 249 24.771 126.513 80.139 1.00 28.41 CD 12009 C VAL D 249 21.752 127.785 82.035 1.00 27.71 CD 12010 O VAL D 249 21.708 128.764 82.778 1.00 27.82 OD 12011 N THR D 250 21.055 126.669 82.251 1.00 27.63 N 12013 CA THR D 250 20.052 126.550 83.310 1.00 27.53 CD 12015 CB THR D 250 19.260 125.242 83.156 1.00 27.53 CD 12017 OG1 THR D 250 19.260 125.242 83.156 1.00 27.53 CD 12019 CG2 THR D 250 19.260 125.242 83.156 1.00 27.43 OD 12019 CG2 THR D 250 17.959 125.284 83.951 1.00 27.43 OD 12019 CG2 THR D 250 20.709 126.563 84.687 1.00 27.51 CD 12014 D 250 20.709 126.563 84.687 1.00 27.51 CD 12014 D 250 21.724 125.885 84.890 1.00 27.39 OD 12014 127.312 85.635 1.00 27.46 N 12025 N PRO D 251 20.720 127.387 86.980 1.00 27.46 N 12026 CA PRO D 251 20.720 127.387 86.980 1.00 27.48 CD 12028 CB PRO D 251 20.720 127.387 86.980 1.00 27.48 CD 12028 CB PRO D 251 20.172 128.715 87.539 1.00 27.49 CD 12017 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 CD 18.929 128.142 85.522 1.00 27.39 CD 18.929 128.142 85.522 1.00 27.56 CD 18.929 128.142 85.522 1.00 27.56 CD 18.929 128.142 85.522 1.00 27.56 CD 19.190 125.733 87.845 1.00 27.55 CD 19.190 125.735 87.539 1.00 27.55 CD 1			CG1		D	249	24.052	126.476				C
ATOM 12010 C VAL D 249 21.708 128.764 82.778 1.00 27.71 CC ATOM 12011 N THR D 250 21.055 126.669 82.251 1.00 27.63 N TOM 12013 CA THR D 250 20.052 126.550 83.310 1.00 27.53 CC ATOM 12017 OG1 THR D 250 19.260 125.242 83.156 1.00 27.53 CC ATOM 12019 CG2 THR D 250 17.959 125.284 83.951 1.00 27.68 CC ATOM 12023 C THR D 250 20.709 126.563 84.687 1.00 27.51 CC ATOM 12024 O THR D 250 21.724 125.885 84.890 1.00 27.51 CC ATOM 12025 N PRO D 251 20.141 127.312 85.635 1.00 27.46 N TOM 12026 CA PRO D 251 20.141 127.312 85.635 1.00 27.48 CC ATOM 12028 CB PRO D 251 20.141 127.312 85.635 1.00 27.49 CC ATOM 12031 CG PRO D 251 20.172 128.715 87.539 1.00 27.49 CC ATOM 12037 C PRO D 251 19.156 129.216 86.544 1.00 27.35 CC ATOM 12038 CD PRO D 251 19.156 129.216 86.544 1.00 27.35 CC ATOM 12038 CD PRO D 251 20.334 126.198 87.867 1.00 27.56 CC ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.69 N TOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.55 CC ATOM 12046 CC TRP D 252 22.278 124.691 90.628 1.00 27.55 CC							24.771	126.513				Č
ATOM 12010 O VAL D 249 21.708 128.764 82.778 1.00 27.82 O ATOM 12011 N THR D 250 21.055 126.669 82.251 1.00 27.63 N ATOM 12013 CA THR D 250 20.052 126.550 83.310 1.00 27.53 C ATOM 12017 OG1 THR D 250 19.260 125.242 83.156 1.00 27.53 C ATOM 12019 CG2 THR D 250 17.959 125.284 83.951 1.00 27.43 O ATOM 12023 C THR D 250 20.709 126.563 84.687 1.00 27.68 C ATOM 12024 O THR D 250 21.724 125.885 84.890 1.00 27.39 ATOM 12025 N PRO D 251 20.141 127.312 85.635 1.00 27.46 N ATOM 12026 CA PRO D 251 20.141 127.312 85.635 1.00 27.46 N ATOM 12028 CB PRO D 251 20.720 127.387 86.980 1.00 27.49 C ATOM 12031 CG PRO D 251 20.172 128.715 87.539 1.00 27.49 C ATOM 12034 CD PRO D 251 19.156 129.216 86.544 1.00 27.35 C ATOM 12034 CD PRO D 251 18.929 128.142 85.522 1.00 27.39 C ATOM 12037 C PRO D 251 18.929 128.142 85.522 1.00 27.39 C ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.56 C ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.55 C ATOM 12046 CB TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12046 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C							21.752	127.785				č
ATOM 12011 N THR D 250 21.055 126.669 82.251 1.00 27.63 N THR D 250 20.052 126.550 83.310 1.00 27.53 C THR D 250 19.260 125.242 83.156 1.00 27.53 C THR D 250 19.260 125.242 83.156 1.00 27.43 O THR D 250 18.840 125.082 81.799 1.00 27.43 O THR D 250 17.959 125.284 83.951 1.00 27.68 C THR D 250 20.709 126.563 84.687 1.00 27.51 C THR D 250 20.709 126.563 84.687 1.00 27.51 C THR D 250 21.724 125.885 84.890 1.00 27.39 O THR D 250 21.724 125.885 84.890 1.00 27.39 O THR D 250 20.141 127.312 85.635 1.00 27.46 N THR D 250 20.172 128.715 87.539 1.00 27.48 C THR D 250 20.172 128.715 87.539 1.00 27.49 C THR D 250 20.172 128.715 87.539 1.00 27.49 C THR D 250 251 20.172 128.715 87.539 1.00 27.49 C THR D 250 251 19.156 129.216 86.544 1.00 27.35 C THR D 251 20.334 126.198 87.867 1.00 27.35 C THR D 252 20.334 126.198 87.867 1.00 27.56 C THR D 252 21.313 125.725 88.634 1.00 27.69 N THR D 252 21.313 125.725 88.634 1.00 27.55 C THR D 252 22.278 124.691 90.628 1.00 27.55 C THR D 252 22.278 124.691 90.628 1.00 27.55 C THR D 252 22.278 124.691 90.628 1.00 27.55 C THR D 252 22.278 124.691 90.628 1.00 27.55 C THR D 252 22.278 124.691 90.628 1.00 27.55									82.778	1.00 27	7.82	ŏ
ATOM 12015 CB THR D 250										1.00 27	7.63	N
ATOM 12017 OG1 THR D 250												С
ATOM 12019 CG2 THR D 250 17.959 125.284 83.951 1.00 27.68 CATOM 12023 C THR D 250 20.709 126.563 84.687 1.00 27.51 CATOM 12024 O THR D 250 21.724 125.885 84.890 1.00 27.39 OATOM 12025 N PRO D 251 20.141 127.312 85.635 1.00 27.46 NATOM 12026 CA PRO D 251 20.720 127.387 86.980 1.00 27.48 CATOM 12028 CB PRO D 251 20.172 128.715 87.539 1.00 27.49 CATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 CATOM 12034 CD PRO D 251 18.929 128.142 85.522 1.00 27.39 CATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 CATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 OATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 NATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 CATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55				THK	ח	250						
ATOM 12023 C THR D 250 20.709 126.563 84.687 1.00 27.51 C ATOM 12024 O THR D 250 21.724 125.885 84.890 1.00 27.39 O ATOM 12025 N PRO D 251 20.141 127.312 85.635 1.00 27.46 N ATOM 12026 CA PRO D 251 20.720 127.387 86.980 1.00 27.48 C ATOM 12028 CB PRO D 251 20.172 128.715 87.539 1.00 27.49 C ATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 C ATOM 12034 CD PRO D 251 18.929 128.142 85.522 1.00 27.39 C ATOM 12037 C PRO D 251 18.929 128.142 85.522 1.00 27.39 C ATOM 12038 O PRO D 251 20.334 126.198 87.867 1.00 27.56 C ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55												
ATOM 12024 O THR D 250 21.724 125.885 84.890 1.00 27.39 O ATOM 12025 N PRO D 251 20.141 127.312 85.635 1.00 27.46 N ATOM 12026 CA PRO D 251 20.720 127.387 86.980 1.00 27.48 C ATOM 12028 CB PRO D 251 20.172 128.715 87.539 1.00 27.49 C ATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 C ATOM 12034 CD PRO D 251 18.929 128.142 85.522 1.00 27.39 C ATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 C ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 O ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55												
ATOM 12025 N PRO D 251 20.141 127.312 85.635 1.00 27.46 N ATOM 12026 CA PRO D 251 20.720 127.387 86.980 1.00 27.48 C ATOM 12028 CB PRO D 251 20.172 128.715 87.539 1.00 27.49 C ATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 C ATOM 12037 C PRO D 251 18.929 128.142 85.522 1.00 27.39 C ATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 C ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 O ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C												
ATOM 12026 CA PRO D 251 20.720 127.387 86.980 1.00 27.48 CATOM 12028 CB PRO D 251 20.172 128.715 87.539 1.00 27.49 CATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 CATOM 12037 C PRO D 251 18.929 128.142 85.522 1.00 27.39 CATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 CATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 OATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 NATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 CATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C												
ATOM 12028 CB PRO D 251 20.172 128.715 87.539 1.00 27.49 C ATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 C ATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 C ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C												
ATOM 12031 CG PRO D 251 19.156 129.216 86.544 1.00 27.35 CC ATOM 12034 CD PRO D 251 18.929 128.142 85.522 1.00 27.39 CC ATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 CC ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 OC ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 CC ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 CC							20.172	128.715				
ATOM 12034 CD PRO D 251 18.929 128.142 85.522 1.00 27.39 C ATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 C ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 O ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C	MOTA	12031	CG									
ATOM 12037 C PRO D 251 20.334 126.198 87.867 1.00 27.56 C ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 O ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C												č
ATOM 12038 O PRO D 251 19.190 125.733 87.845 1.00 27.69 O ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C	MOTA	12037		PRO	D	251	20.334	126.198				č
ATOM 12039 N TRP D 252 21.313 125.725 88.634 1.00 27.62 N ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C	ATOM ATOM			מתת	ח	251	19.190	125.733				
ATOM 12041 CA TRP D 252 21.182 124.581 89.549 1.00 27.55 C ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C	ATOM ATOM ATOM	12038						~~~~		1.00 21	.09	U
ATOM 12043 CB TRP D 252 22.278 124.691 90.628 1.00 27.55 C	ATOM ATOM ATOM ATOM	12038 12039	N	TRP	D	252	21.313	125.725	88.634			
	ATOM ATOM ATOM ATOM ATOM	12038 12039 12041	N CA	TRP TRP	D D	252 252	21.313 21.182	125.725 124.581	88.634 89.549	1.00 27 1.00 27	7.62 7.55	N C
	ATOM ATOM ATOM ATOM ATOM	12038 12039 12041 12043	N CA CB	TRP TRP TRP	D D D	252 252 252	21.313 21.182 22.278	125.725 124.581 124.691	88.634 89.549 90.628	1.00 27 1.00 27 1.00 27	7.62 7.55 7.55	N C C

ATOM	12047	CD1	TRP	\mathbf{r}	252	2'	2 550	123.360	02 016	1 00	22 50				_
									92.816		27.50				С
ATOM	12049		TRP					122.066	93.197		27.51				N
ATOM	12051	CE2	TRP	D	252	22	2.988	121.295	92.072	1.00	26.94				С
MOTA	12052	CD2	TRP	D	252	2:	2.809	122.137	90.952	1.00	26.92		•		С
ATOM	12053	CE3	TRP					121.577	89.672		25.87			•	č
														•	
MOTA	12055		TRP					120.232	89.547		24.88				С
MOTA	12057	CH2	TRP	D	252			119.422	90.674	1.00	25.44				С
MOTA	12059	CZ2	TRP	D	252	2:	3.269	119.930	91.944	1.00	25.75			•	C
MOTA	12061	С	TRP					124.407	90.196		27.43				Ċ.
ATOM	12062		TRP					125.312							~
		0							90.836		27.03				0
MOTA	12063	N	ALA					118.155	95.227		23.00				N
MOTA	12065	CA	ALA	D	260	1:	2.344	116.854	94.696	1.00	23.32				·C
MOTA	12067	CB	ALA	D	260	1	1.832	115.729	95.597	1.00	23.03				C
MOTA	12071	Ċ	ALA					116.645	93.244		23.64	•			Č
ATOM	12072	ŏ	ALA					115.918	92.481		23.69				
															0
ATOM	12073	N	ALA					117.302	92.861		23.93				N
MOTA	12075	CA	ALA	D	261	1	0.134	117.103	91.542	1.00	24.02				С
MOTA	12077	СB	ALA	D	261		8.621	117.448	91.625	1.00	24.06				С
ATOM	12081	C	ALA					117.867	90.378		24.05		٠		Č
ATOM	12082	ŏ	ALA					117.323			23.74	•			
									89.700					•	0
MOTA	12083	N	ASP					119.124	90.161		24.17				N
ATOM	12085	CA	ASP	D	262	. 1	0.994	119.991	89.121	1.00	24.14		•		С
MOTA	12087	CB	ASP	D	262	1	0.240	121.335	89.036	1.00	24.11				С
ATOM	12090	CG			262			121.204	88.403		24.03				Č
ATOM	12091							120.729							\sim
			ASP						87.250		24.40				0
ATOM	12092		ASP					121.556	88.973		22.47				0
MOTA	12093	С	ASP	D	262	1	2.487	120.270	89.353	1.00	24.08				С
ATOM	12094	0	ASP	D	262	1	3.148	120.862	88.498	1.00	24.02				0
ATOM	12095	N			263			119.863	90.519		24.08				N
ATOM	12097	CA			263			119.986							7.4
									90.863		24.12				C
ATOM	12099	CB			263			119.827	92.363		24.05				С
ATOM	12103	Ç	ALA	D	263	1	5.235	118.953	90.116	1.00	24.31				С
MOTA	12104	0	ALA	D	263	1	6.154	119.316	89.388	1.00	24.40				0
MOTA	12105	N			264			117.672	90.298		24.43				N
ATOM	12107	CA			264			116.571	89.645		24.41				C
															_
ATOM	12109	СВ			264			115.220	89.857		24.78				С
ATOM	12112	CG			264			114.559	91.207		26.41				С
ATOM	12115	CD	ARG	D	264	1	6.128	113.313	91.153	1.00	28.02				С
ATOM	12118	NE	ARG	Ð	264	1	5.936	112.468	92.338		29.58				N
ATOM	12120	CZ			264			112.768	93.581		30.11		•		Ċ
	12121														
ATOM			ARG					113.895	93.847		30.32				N
MOTA	12124	NH2	ARG					111.919	94.574		30.11				N.
ATOM	12127	С	ARG	D	264	1	5.786	116.812	88.157	1.00	23.72				C
ATOM	12128	0	ARG	D	264	1	6.872	116.650	87.618	1.00	23.74				0
MOTA	12129	N			265	1	4.686	117.204	87.514		23.03				N
ATOM	12131	CA			265			117.457	86.071		22.54				
															Č.
ATOM	12133	CB			265			118.023	85.671		22.69				C
MOTA	12136	CG	GLN	D	265	1	2.092	117.084	85.914	1.00	23.55				С
ATOM	12139	CD	GLN	D	265	1	1.692	116.289	84.682	1.00	24.35				С
MOTA	12140		GLN					115.948	83.836		24.12				0
MOTA	12141		GLN					115.972	84.582		23.27				
												-			N
MOTA	12144	C			265			118.475	85.669		21.78				C
MOTA	12145	0			265			118.314	84.667		21.44				0
MOTA	12146	N			266	1	5.744	119.532	86.469	1.00	20.95				N
ATOM	12148	CA			266			120.686	86.191		20.34				C
ATOM	12150	СВ			266			121.911	86.942		20.32				č
													-		
ATOM	12153	CG			266			122.611	86.250		19.85				·C
MOTA	12156	CD			266			124.095	86.515		19.30				С
MOTA	12157		GLN			1	3.819	124.682	86.767	1.00	18.49				.0
MOTA	12158	NE2	GLN	D	266	1	6.054	124.712	86.462		18.45				N
MOTA	12161	С			266			120.493	86.534		19.81				C
		_		_		-			55.551						J

ATOM	12162	0	GLN	ח	266	18 919	121.083	85.887	1 00	19.75	•
											0
MOTA	12163	N	ARG			18.36/	119.707	87.558	1.00	19.26	N
ATOM	12165	CA	ARG	D	267	19.760	119.484	87.928	1.00	18.91	С
ATOM	12167	CB	ARG			19 875	118.831	89.307			
										18.86	C
MOTA	12170	CG	ARG				119.716	90.458	1.00	19.30	C
MOTA	12173	CD	ARG	D	267	20.088	119.498	91.791	1.00	19.49	C
ATOM	12176	NE	ARG				119.747	92.990		19.05	
											N
MOTA	12178	CZ	ARG				118.992	93.394	1.00	19.29	C
MOTA	12179	NH1	ARG	D	267	17.879	117.927	92.698	1.00	19.93	N
MOTA	12182		ARG				119.304	94.501		19.74	
											N
MOTA	12185	С			267		118.607	86.850		18.71	C
ATOM	12186	0	ARG	D	267	21.551	118.745	86.522	1.00	18.59	0
ATOM	12187	N	PHE	D	268	19.540	117.732			18.40	N
	12189				268						
MOTA		CA					116.860	85.186		18.11	С
ATOM	12191	CB	PHE	D	268		115.694	85.016	1.00	17.95	С
ATOM	12194	CG	PHE	D	268	19,275	114.814	83.856	1.00	17.37	C
ATOM	12195		PHE				113.949	83.912		17.56	C
											C
ATOM	12197		PHE				113.154	82.823		17.07	C
ATOM	12199	CZ	PHE	D	268	19.946	113.236	81.669	1.00	17.17	C
MOTA	12201	CE2	PHE				114.109	81.602		16.96	č
											C.
ATOM	12203		PHE				114.893	82.686		16.46	C
ATOM	12205	С	PHE	D	268	20.098	117.636	83.865	1.00	18.05	С
ATOM	12206	0	PHE	D	268	21.070	117.418	83.151		17.93	0
ATOM	12207	N			269		118.534				
								83.547		17.95	N
MOTA	12209	CA			269	19.231	119.343	82.316	1.00	17.76	С
ATOM	12211	CB	ALA	D	269	17.983	120.183	82.140	1.00	17.62	С
MOTA	12215	С			269		120.235	82.347		17.71	Č
											تِ
MOTA	12216	0			269		120.267	81.404	1.00	17.51	0
MOTA	12217	N	\mathtt{HIS}	D	270	20.615	120.954	83.451	1.00	17.77	N
ATOM	12219	CA	HIS	D	270	21.846	121.670	83.766	1 00	18.05	C
ATOM	12221	CB			270		122.211				2
								85.198		18.27	C
MOTA	12224	CG			270	23.061	122.777	85.689	1.00	19.88	С
ATOM	12225	ND1	HIS	D	270	23.591	123.949	85.199	1.00	21.95	N
ATOM	12227		HIS				124.191	85.798		22.95	Ċ
ATOM											
	12229		HIS				123.223	86.664		21.99	N
ATOM	12231	CD2	HIS	D	270	23.941	122.322	86.610	1.00	21.49	C
ATOM	12233	С	HIS	D	270	23.122	120.815	83.569		17.75	C
ATOM	12234	0			270		121.307	83.066		17.56	
											0
MOTA	12235	N			271		119.546	83.959	1.00	17.53	N
MOTA	12237	CA	PHE	D	271	24.208	118.640	83.727	1.00	17.53	С
ATOM	12239	CB	PHE	D	271	24,053	117.315	84.477	1.00	17.68	С
MOTA	12242	CG			271		117.217	85.731		18.67	ŏ
											C
ATOM	12243		PHE				118.009	86.823		19.66	С
MOTA	12245	CEl	PHE	D	271	25.339	117.902	87.997	1.00	20.35	С
ATOM	12247	CZ	PHE	D	271	26.364	116.992	88.092		20.48	Ċ
MOTA	12249	CE2	PHE				116.183	87.019			_
										20.74	C
ATOM	12251		PHE				116.292	85.837	1.00	20.72	С
MOTA	12253	С	PHE	D	271	24.379	118.341	82.244	1.00	17.14	C
ATOM	12254	0	PHE	D	271		118.324	81.764		17.01	Ö
MOTA	12255	N			272		118.097				
								81.517		16.93	N
ATOM	12257	CA			272	23.401	117.786	80.092	1.00	16.56	С
MOTA	12259	CB	THR	D	272	22.085	117.262	79.459	1.00	16.45	С
MOTA	12261	OG1	THR				118.214	79.635			
										15.61	0
MOTA	12263	CG2			272		115.996	80.145		16.59	C
ATOM	12267	С			272	23.867	119.001	79.326	1.00	16.57	С
MOTA	12268	0			272		118.851	78.324		16.95	ō
ATOM	12269	N			273		120.198				
								79.801		16.50	N
MOTA	12271	CA			273		121.417	79.103	1.00	16.38	С
ATOM	12273	CB	GLÜ	D	273	23.079	122.612	79.561	1.00	16.60	C
MOTA	12276	CG			273		122.628	79.000		16.17	Č
ATOM	12279	CD			273	20 760	123.645				Č
			<u> </u>		413	 20.109	143.043	79.687	τ.00	16.15	C

ATOM	12280	OE1	GLU	D	273	21 25	2	124.749	79.990	1 00	16.02	
ATOM	12281		GLU					123.346	79.921			
ATOM	12282	C.			273						15.92	
ATOM	12283							121.677	79.250		16.46	
		0			273			122.023	78.272		17.15	
ATOM	12284	N			274			121.480	80.436	1.00	16.45	
MOTA	12286	CA			274			121.498	80.585	1.00	16.47	
MOTA	12288	CB	LEU	D	274	27.88	7	121.175	82.014	1.00	16.45	
MOTA	12291	CG	LEU	D	274 .	27.52	2	122.146	83.131		17.83	
ATOM	12293	CD1	LEU	D	274			121.599	84.438		18.43	
ATOM	12297	CD2	LEU					123.531	82.890		18.95	
ATOM	12301	C			274			120.488	79.658		16.34	
ATOM.	12302	ŏ			274							
ATOM	12302	N						120.821	78.917		16.64	
					275			119.244	79.720		16.06	
ATOM	12305	CA			275			118.196	78.827		15.87	
ATOM	12307	CB			275			116.937	79.055	1.00	15.82	
MOTA	12311	C .			275			118.586	77.336	1.00	15.73	
MOTA	12312	0			275	28.97	7	118.147	76.585		15.15	
MOTA	12313	N	ILE	D	276	27.13	9	119.397	76.924		15.76	
ATOM	12315	CA	ILE	D	276				75.523		15.90	
ATOM	12317	CB			276			120.473	75.249		15.67	
ATOM	12319	CG1						119.400	74.955		14.78	
ATOM	12322	CD1			276			119.832				
ATOM	12326		ILE						75.206		13.45	
ATOM								121.438	74.066		15.58	
	12330	C	ILE					120.799	75.177		16.67	
MOTA	12331	0			276			120.702	74.126		16.45	
ATOM	12332	N			277			121.758	76.067		17.62	
ATOM	12334	CA			277			122.661	75.960		18.37	
MOTA	12336	CB			277			123.635	77.180	1.00	18.49	
ATOM	12338	CG1	ILE	D	277			124.842	76.952	1.00	17.80 ·	
ATOM	12341	CD1	ILE			28.17	5	125.500	78.222		17.69	
MOTA	12345	CG2	ILE	D	277	30.95	7	124.099	77.457		18.88	
ATOM	12349	C	ILE	D	277			121.860	75.859		18.96	
ATOM	12350	0	ILE	D	277 .			122.169	75.026		19.51	
ATOM	12351	N	SER	D	278			120.845	76.698		19.34	
ATOM	12353	CA	SER					120.061	76.639		19.82	
MOTA	12355	CB	SER					118.950	77.690		19.87	
ATOM	12358	OG	SER					119.456	78.931			
ATOM	12360	Č	SER			32.30	ว้	119.441	75.268		20.32	
ATOM	12361	ŏ	SER					119.453			20.11	
ATOM	12362	N	VAL					118.894	74.731		20.21	
ATOM	12364	CA	VAL						74.723		20.55	
ATOM	12366	CB						118.140	73.476		21.04	
			VAL					117.520	73.142		21.27	
ATOM	12368	CG1	VAL	ט	279			117.021	71.695		21.43	
ATOM	12372		VAL					116.394	74.083		21.87	
ATOM	12376	C	VAL					119.042	72.341		21.16	
ATOM	12377	0	VAL					118.620	71.457	1.00	21.05	
ATOM	12378	N	GLN					120.278	72.375	1.00	21.62	
MOTA	12380	CA	GLN			31.549	9	121.265	71.344		22.33	
ATOM	12382	CB	GLN	D	280	30.526	5	122.415	71.428		22.48	
MOTA	12385	CG	GLN			31.07	L	123.835	71.198		24.61	
ATOM	12388	CD	GLN	D	280	30.630)	124.844	72.270		26.80	
MOTA	12389	OE1	GLN	D	280			125.353	72.230		27.38	
ATOM	12390	NE2		D	280			125.143	73.220		26.29	
ATOM	12393	C	GLN					121.735	71.465		22.39	
ATOM	12394	Õ	GLN	D	280			121.917	70.454			
ATOM	12395	N	GLU					121.905			22.31	
ATOM	12397	CA	GLU					122.230	72.708	1.00	22.30	
ATOM	12399	CB	GLU						73.038		22.00	
ATOM	12402	CG	GLU					122.375	74.575		21.87	•
ATOM	12405	CD	GLU					123.780	75.148		21.96	
ATOM	12406		GLU	ק	201			123.853	76.670		22.51	
011	75400	~~1	2TO	ט	401	33.344	_	122.911	77.312	T.00	24.35	

ATOM ATOM	12407 12408		GLU	D	281	35.877	124.871 121.174	77.242 72.523	1.00 22.76 1.00 21.82	0 C
ATOM ATOM	12409 12410		GLU ILE				121.501 119.913	72.122 72.576	1.00 21.34 1.00 21.79	. N
ATOM	12410		ILE				118.800	72.159	1.00 22.01	. C
ATOM	12414		ILE				117.461	72.747	1.00 21.99	· C
MOTA	12416	CG1					117.470	74.259	1.00 22.50	000000000000000000000000000000000000000
MOTA	12419		ILE				116.570	74.979 72.121	1.00 23.27 1.00 20.81	C
ATOM ATOM	12423 12427		ILE				116.248 118.734	70.645	1.00 20.81	C.
ATOM	12428		ILE				118.378	70.122	1.00 22.28	ō
MOTA	12429		VAL			35.282	119.068	69.951	1.00 22.17	N
ATOM	12431		VAL				119.088	68.499	1.00 22.70	.· C
MOTA	12433		VAL				119.307	67.897 66.436	1.00 22.96 1.00 22.97	ä
ATOM	12435 12439		VAL VAL				119.665 118.045	68.062	1.00 22.97	000000000000000000000000000000000000000
ATOM ATOM	12433	C	VAL				120.163	68.037	1.00 22.61	č
ATOM	12444		VAL				119.865	67.295	1.00 22.62	. 0
MOTA	12445	N	ASP				121.392	68.512	1.00 22.66	N
MOTA	12447	CA	ASP				122.533	68.215	1.00 22.70	C
MOTA	12449	CB	ASP ASP				123.736 124.424	69.115 68.740	1.00 22.97 1.00 23.36	C
MOTA MOTA	12452 12453	CG OD1	ASP			35.035		69.322	1.00 25.20	ő
ATOM	12454		ASP				123.964	67.897	1.00 24.52	0
ATOM	12455	С	ASP	D	284		122.175	68.406	1.00 22.40	C
MOTA	12456	0	ASP				122.440	67.554	1.00 23.22	0
MOTA	12457	N			285		121.573 121.016	69.536 69.808	1.00 22.24 1.00 22.02	
MOTA MOTA	12459 12461	CA CB	PHE		285 285		120.433	71.217	1.00 21.60	č
MOTA	12464	CG			285		119.970	71.629	1.00 20.44	C
MOTA	12465	CD1	PHE	D	285	42.418	120.872	71.940	1.00 20.37	C
MOTA	12467		PHE				120.443	72.320	1.00 19.67	C
MOTA	12469	CZ			285		119.132 118.230	72.385 72.077	1.00 18.57 1.00 19.85	C
ATOM ATOM	12471 12473	CE2			285 285		118.230	71.691	1.00 19.03	C
ATOM	12475	C			285		119.941	68.820	1.00 22.57	C
ATOM	12476	0			285	41.611	120.086	68.279	1.00 23.04	0
MOTA	12477	N			286		118.869	68.587	1.00 22.62	17
MOTA	12479	CA			286		117.847 116.752	67.617 67.491	1.00 23.09 1.00 23.17	C
ATOM ATOM	12481 12485	CB C			286 286		118.405	66.219	1.00 23.54	С С О О И
ATOM	12486	ŏ			286		117.849	65.515	1.00 23.29	0
ATOM	12487	N	LYS	D	287		119.497	65.833	1.00 23.97	N
MOTA	12489	CA			287		120.100	64.525	1.00 24.53	C
MOTA	12491	CB			287 287		121.077 120.465	64.177 63.567	1.00 25.33 1.00 27.96	C
MOTA MOTA	12494 12497	CG CD			287		118.867	63.694	1.00 32.35	Ċ
MOTA	12500	CE			287		118.136	63.551	1.00 33.10	. С
MOTA	12503	NZ	LYS	D	287		118.860	62.906	1.00 33.08	N
MOTA	12507	C			287		120.800	64.479	1.00 24.04	C
ATOM	12508	O			287 288		120.936	63.395 65.641	1.00 24.35 1.00 23.24	O N
MOTA MOTA	12509 12511	N CA			288		121.804	65.768	1.00 22.64	Ċ
ATOM	12513	CB			288		122.829	66.910	1.00 22.82	C
MOTA	12516	CG			288		123.965	66.878	1.00 23.86	Q
MOTA	12519	CD			288		124.969	65.844	1.00 26.39	C
MOTA	12520 12521				288		3 125.429 9 125.323	65.755 65.041		N.
MOTA ATOM	12521	C			288		120.807	66.017		· C
ATOM	12525	ŏ			288	45.604	121.213	65.961	1.00 21.00	C
MOTA	12526	N	VAL	D	289	44.15	119.538	66.324	1.00 21.18	I.

ATOM	12528	CA.	777 T	289	45 000			
ATOM						118.544	66.510	1.00 20.73
	12530	CB	VAL	289	44.738	117.276	67.243	1.00 20.79
ATOM	12532	CG1			45.885	116.238	67.403	1.00 19.29
MOTA	12536	CG2	VAL I	289	44 129	117.651	68.609	
ATOM	12540	С		289	45 700	118.159		1.00 20.99
ATOM	12541	ŏ		289	45.703	110.139	65.143	1.00 20.90
					45.039	117.683	64.287	1.00 20.95
MOTA	12542	N		290	47.091	118.396	64.912	1.00 20.70
ATOM	12543	CA	PRO I	290	47.705	118.003	63.647	1.00 20.51
ATOM	12545	CB	PRO I	290	49 170	118.393	63.854	1.00 20.31
ATOM	12548	CG		290	40 114	110.393		1.00 20.50
ATOM	12551	CD				119.490	64.867	1.00 20.21
				290	48.068	119.071	65.795	1.00 20.24
ATOM	12554	С		290	47.537	116.501	63.361	1.00 21.20
ATOM	12555	0	PRO I	290	47.848	115.674	64.219	1.00 20.62
ATOM	12556	N	GLY I	291		116.169	62.171	1.00 22.22
ATOM	12558	CA	GLY I			114.792		1.00 22.22
ATOM	12561	C	GLY I				61.762	1.00 22.96
ATOM	12562					114.489	61.588	1.00 23.80
		0	GLY I			113.845	60.601	1.00 24.45
ATOM	12563	N	PHE D		44.518	114.949	62.553	1.00 23.74
ATOM	12565	CA	PHE [292	43.083	114.699	62.583	1.00 23.53
MOTA	12567	CB	PHE D			115.495	63.727	1.00 23.33
ATOM-	12570	CG	PHE		41.103			1.00 23.16
ATOM	12571		PHE D				64.091	1.00 21.53
ATOM					40.955		64.802	1.00 22.59
	12573	CE1		292	39.709	113.365	65.109	1.00 23.64
ATOM	12575	CZ		292	38.581	114.057	64.686	1.00 22.30
MOTA	12577	CE2	PHE D	292	38.734	115.203	63.973	1.00 21.89
ATOM	12579	CD2		292		115.678	63.677	1.00 21.09
ATOM	12581	С	PHE D		. 42 242	114.989		1.00 21.09
ATOM	12582	Õ	PHE . D		42.343	114.989	61.252	1.00 24.42
ATOM					41.609	114.121	60.744	
	12583	N	LEU D			116.193	60.697	1.00 25.57
ATOM	12585	CA	LEU D		41.798	116.611	59.489	1.00 26.53
MOTA	12587	CB	LEU D				59.358	1.00 26.83
MOTA	12590	CG	LEU D	293	41.021	118.951	60.490	1.00 28.44
ATOM	12592	CD1	LEU D			120.447	60.419	
MOTA	12596		LEU D		41.000	118.773		1.00 29.31
ATOM	12600	C	LEU D				60.545	1.00 28.73
ATOM					42.361		58.202	1.00 26.86
	12601	0	LEU D		41.711		57.165	1.00 26.99
ATOM	12602	N	GLN D		43.553	115.404	58.277	1.00 27.57
ATOM	12604	CA	GLN D	294	44.088		57.195	1.00 28.18
ATOM	12606	CB	GLN D	294		114.549	57.221	
ATOM	12609	CG	GLN D		46 375	113.374		
ATOM	12612	CD	GLN D				57.995	1.00 29.83
ATOM	12613		GLN D		47.882	113.628	58.254	1.00 31.21
ATOM					48.653	112.690	58.434	1.00 35.09
	12614		GLN D			114.878	58.300	1.00 31.40
ATOM	12617	С	GLN D		43.520	113.100	57.194	1.00 27.84
MOTA	12618	0	GLN D		43.881	112.296	56.330	1.00 27.73
MOTA	12619	N	LEU D	295		112.773	58.161	
ATOM	12621	CA	LEU D	295		111.509		1.00 27.04
ATOM	12623	CB	LEU D		41 611	111.509	58.187	1.00 25.66
ATOM	12626					111.090	59.633	1.00 25.33
		CG	LEU D	295	42.789	110.608	60.478	1.00 23.90
MOTA	12628		LEU D		42.330	110.230	61.882	1.00 22.76
ATOM	12632	CD2	LEU D	295		109.447	59.805	1.00 22.45
ATOM	12636	C	LEU D		40.630	111.676	57.409	1.00 25.12
ATOM	12637	0	LEU D		40 140	112.781		
ATOM	12638	N	GLY D	206			57.283	1.00 24.36
ATOM	12640	CA	GLY D	200		110.571	56.912	1.00 24.98
ATOM					38.788	110.591	56.251	1.00 25.23
	12643	C	GLY D	296	37.695	111.063	57.188	1.00 25.63
ATOM	12644	0	GLY D			110.926	58.383	1.00 26.10
ATOM	12645	N	ARG D			111.620	56.665	1.00 26.28
ATOM	12647	CA	ARG D			112.157	57.527	1.00 26.28
MOTA	12649	CB	ARG D			112.786	56.700	
ATOM	12652	CG	ARG D			113.685		1.00 26.90
•					22.402	TT3.003	57.498	1.00 29.64

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ATOM	12655		ARG I				114.073	56.720	1.00 3			С
MOTA	12658		ARG I				114.678	57.568	1.00 3			N
MOTA	12660		ARG I				114.061	58.027 57.750	1.00 3			C N
ATOM	12661		ARG I				112.775 114.745	58.787	1.00 3			N
ATOM ATOM	12664 12667		ARG !				111.079	58.443	1.00 2			C
ATOM	12668		ARG I				111.363	59.595	1.00 2			0
ATOM	12669	-	GLU !				109.853	57.916	1.00 2	25.79		N
ATOM	12671	CA	GLU			34.324	108.709	58.638	1.00		•	С
MOTA	12673	CB	GLU !				107.457	57.760	1.00			C
ATOM	12676	CG	GLU :				106.639	57.739	1.00			C
ATOM	12679	CD	GLU				106.757	56.418	1.00			0
MOTA	12680	OE1	GLU GLU	ָ כ	298		107.844 105.767	55.648	1.00			Ö
MOTA	12681 12682	OE2 C	GLU	מ	290 298		108.436	59.925	1.00			Č
ATOM ATOM	12683	0	GLU				108.340	61.022	1.00		•	0
ATOM	12684	N .	ASP				108.311	59.770	1.00	23.72		N
ATOM	12686	CA	ASP				108.057	60.884	1.00			C
ATOM	12688	СВ	ASP			38.712	107.756	60.374	1.00			C
MOTA	12691 [.]	CG	ASP				106.328	-59.985	1.00			C .
ATOM	12692		ASP				105.618	60.008 59.649	$1.00 \\ 1.00$			Ö
MOTA	12693		ASP ASP				105.818 109.175	61.883		21.89		č
MOTA	12694 12695	C O	ASP				108.919	63.058		21.49		Ö
MOTA MOTA	12696	N	GLN				110.415	61.421		21.38		N
ATOM	12698	CA	GLN			37.217	111.550	62.326		20.93		С
ATOM	12700	CB	GLN				112.846	61.538		20.99		C
MOTA	12703	CG	GLN				113.275	60.758		21.23		C
MOTA	12706	CD	GLN				114.518	59.908		18.90		C
ATOM	12707	OE1					115.450 114.529	60.302 58.747		18.65 17.75		И
MOTA	12708	NE2	GLN GLN				111.354	63.232		20.70		C
ATOM ATOM	12711 12712	C O	GLN				111.596	64.438		20.60		Ö
ATOM	12713	N	ILE				110.922	62.629		20.41		N
ATOM	12715	CA	ILE			33.645	110.807	63.342		20.32		С
ATOM	12717	CB	ILE				110.539	62.342		20.75		C
ATOM	12719		ILE				111.842	62.000		21.61		C
ATOM	12722		ILE				111.821 109.561	60.585 62.898		23.12 21.24		C
ATOM	12726	CG2	ILE			31.3/0	109.361	64.396		19.30		č
MOTA MOTA	12730 12731	C O			301		109.956	65.535		18.56		ō
ATOM	12732	N	ALA				108.591	63.979		18.64		- N
ATOM	12734	CA	ALA			34.464	107.424	64.811		18.49		С
MOTA	12736	CB	ALA	D	302		106.285	63.975		18.24		C
MOTA	12740	С	ALA				107.675	66.004		18.94		C
MOTA	12741	0	ALA				107.258	67.112 65.779		19.46 19.14		O N
MOTA	12742	N	TEU	מ	303 303		108.359 108.638	66.827		19.01		C
ATOM ATOM	12744 12746	CA CB			303		109.255	66.259		18.59		č
ATOM	12749	CG			303	39.571		65.304		18.48		С
ATOM	12751		LEU			40.776	109.135	64.828		18.54		С
ATOM	12755		LEU				107.096	65.946		19.04		C
MOTA	12759	С			303		109.599	67.842		19.75		C
MOTA	12760	0			303		109.466	69.014		20.11		O
ATOM	12761	N			304		2 110.583 5 111.578	67.396 68.302		20.37 21.24		N C
ATOM	12763	CA CB			304 304		112.794	67.533		21.60		C
ATOM ATOM	12765 12768	CG			304		113.963	67.403		22.91		С
ATOM			LEU			35.301	115.085	66.740	1.00	23.49		С
ATOM			LEU	D	304	36.599	114.368	68.770		23.75		C
MOTA		C	LEU	D	304	34.450	111.005	69.082	1.00	21.38		С
												

MOTA	12779	o	LEU	D	304		34.229	111.379	70.230	1.00 21.95	· ·	•	0
MOTA	12780	N	LYS	D	305		33.690	110.124	68.449	1.00 21.59	,		N
MOTA	12782	CA	LYS	D	305		32.502	109.564	69.064	1.00 22.10			, C
MOTA	12784		LYS				31.758		68.078 [.]	1.00 22.53			С
MOTA	12787		LYS					108.350	68.468	1.00 24.98			С
MOTA	12790		LYS		305			107.812	67.266	1.00 27.56			· C
MOTA	12793		LYS			•		106.702	67.654	1.00 28.13			C
ATOM	12796		LYS					107.285	67.902	1.00 30.85			. N
MOTA	12800		LYS					108.768	70.288	1.00 21.70			C
MOTA	12801	.0	LYS					108.868	71.324	1.00 22.09			0
MOTA	12802		ALA					108.022	70.160	1.00 21.18			. С И
MOTA	12804	CA	ALA					107.235	71.239	1.00 20.90			
ATOM	12806	CB	ALA					106.256 108.088	70.663 72.286	1.00 20.80			. C
ATOM	12810	C	ALA					107.824	73.476	1.00 21.0			Ö
MOTA	12811	0	ALA					107.824	71.824	1.00 21.0			И
MOTA	12812	N	SER			-		109.802	72.650	1.00 22.5			C
MOTA	12814	CA	SER			-		110.563	71.787	1.00 22.6			Č
MOTA	12816	CB _. OG			307			109.880	71.824	1.00 25.9			ő
ATOM ATOM	12819 12821	C			307			110.791	73.585	1.00 22.1			č
ATOM	12822	Ö			307			111.052	74.661	1.00 22.2		•	ō
ATOM		N			308			111.340	73.152	1.00 21.7			N
ATOM	12825	CA			308			112.457	73.819	1.00 21.3			C
ATOM	12827	CB			308			112.742	73.087	1.00 21.4			C
ATOM	12829	OG1	THR					113.275	71.802	1.00 21.0			0
ATOM	12831	CG2			308			113.843	73.775	1.00 21.8			С
MOTA	12835	С			308,	-	34.288	112.248	75.304	1.00 21.1	0		С
ATOM	12836	0			308		34.700	113.058	76.126	1.00 21.2	3		0
ATOM	12837	N	ILE	D	309			111.162	75.669	1.00 20.7			N
MOTA	12839	CA	ILE	D	309			110.900	77.087	1.00 20.2			С
MOTA	12841	CB	ILE	D	309			109.705	77.301	1.00 20.1			С
ATOM	12843	CG1			309			109.627	78.769	1.00 20.4			С
ATOM	12846		ILE					110.861	79.247	1.00 20.8			CC
MOTA	12850	CG2			309			108.413	76.873	1.00 20.0			C
ATOM	12854	C			309			110.692	77.837	1.00 20.0		•	C
ATOM	12855	0	ILE					111.020	79.042	1.00 20.4			. O
MOTA	12856	N			310			110.128	77.157 77.804	1.00 18.9			C
ATOM	12858	CA			310			109.860 108.893	76.977	1.00 17.8			C
ATOM	12860 12863	CB CG	GLU		310 310			107.662	76.506	1.00 17.6			Č
ATOM ATOM	12866	CD			.310			106.432	76.138	1.00 16.7			C C C
ATOM					310			106.441	76.130	1.00 17.8			ő
ATOM	12868				310			105.427	75.831	1.00 14.7			ŏ
ATOM		C			310			111.189	78.103	1.00 17.8			C
ATOM		ŏ			310			111.363	79.139	1.00 17.2			0
ATOM		N			311			112.133	77.188	1.00 17.9			N
ATOM		CA	ILE	D	311			113.445	77.287	1.00 18.0			Ċ
ATOM		CB			311			114.184	75.891	1.00 17.9	94		С
ATOM		CG1	ILE	D	311			113.548	74.950	1.00 18.5			С
ATOM					311			114.008	73.462	1.00 18.5			С
ATOM	12884	CG2	ILE	D	311			115.690	76.033	1.00 16.9			С
ATOM		С			311			114.257	78.390	1.00 17.8			С
ATOM		0			311			114.914	79.170	1.00 17.4			0
MOTA		N			312			114.203	78.434	1.00 18.0			И
ATOM		CA			312			114.829	79.497	1.00 18.4			C
ATOM		CB			312			114.537	79.279	1.00 18.5			C
ATOM		CG			312			115.223	78.107	1.00 19.0			C
ATOM		SD			312			114.482	77.692	1.00 21.4			S
ATOM		CE			312			115.688 114.286	78.243 80.874	1.00 23.3			C
ATOM		C O			312 312			114.200	81.877	1.00 18.4			. 0
ATOM	12900	0	LIE I	ע	, 212		55.000		01.077	1.00 10.			. 3
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ATOM	12907	N	TEIT	D	313	26 150	112 006				
						30.152	113.006	80.896	1.00	18.57	N
MOTA	12909	CA			313	36.513	112.322	82.098	1.00	19.20	С
ATOM	12911	CB	LEU	D	313	36.602	110.821	81.795		19.54	ŏ
ATOM	12914	CG			313		110.100				С
ATOM	12916					35.200	110.100	81.922		19.89	C
			LEU				108.731	81.246	1.00	21.07	C
MOTA	12920	CD2	LEU	D	313	34.876	109.976	83.398		19.05	C
ATOM	12924	С	LEU	D	313	37.849	112.830	82.567		19.34	
ATOM	12925	0			313		113.038				C
ATOM	12926					30.000	113.038	83.746		19.32	0
		N			314		112.989	81.608	1.00	19.77	N
ATOM	12928	CA			314	40.102	113.411	81.842	1.00	20.55	С
ATOM	12930	CB	LEU	D	314	40.856	113.304	80.522		20.62	Č
ATOM	12933	CG	LEU	D	314		112.700	80.428		21.87	2
ATOM	12935		LEU				111.631				С
ATOM	12939							81.404		22.40	C
			LEU				112.175	79.014	1.00	23.96	С
ATOM	12943	С			314		114.859	82.333	1.00	20.82	С
ATOM	12944	0	LEU	D	314	40.898	115.226	83.202		20.41	ŏ
ATOM	12945	N	GLU	D	315	39 225	115.658	81.740			
ATOM	12947	CA			315		117.085			21.66	N
ATOM	12949							82.029		21.96	C
		CB			315		117.787	80.892	1.00	22.44	C
MOTA	12952	CG			315	39.159	118.050	79.651	1.00	25.65	Ċ
ATOM	12955	CD	GLU	D	315		119.085	79.890		29.69	Č
ATOM	12956	OE1	GLU				120.148		1.00	29.09	C
MOTA	12957	OE2			315			80.471	1.00		0
ATOM	12958					41.434	118.839	79.511	1.00	30.62	0
		C			315	38.318	117.271	83.338	1.00	21.05	С
MOTA	12959	0	GLU	D	315	38.530	118.266	84.046	1.00	21.15	Ō
MOTA	12960	N	THR	D	316	37.451	116.312	83.651	1.00		Ŋ
ATOM	12962	CA			316	36.697	116.323	84.895			
ATOM	12964	CB			316	25 616	115.211			19.30	С
ATOM	12966					33.010	113.211	84.871	1.00		С
		OG1			316		115.641	84.096	1.00	16.74	0
ATOM	12968	CG2	THR			35.022	114.957	86.258	1.00	18.57	C
ATOM	12972	С	THR	D	316		116.153	86.052	1.00		č
ATOM	12973	0			316		116.924	87.042			
ATOM	12974	Ň	ALA						1.00		0
						30.578	115.166	85.872	1.00		, И
ATOM	12976	CA	ALA			39.610	114.797	86.842	1.00	19.58	С
MOTA	12978	CB	ALA			40.431	113.613	86.299	1.00		Č
ATOM	12982	С	ALA	D	317		115.956	87.133	1.00		
ATOM	12983	0	ALA				116.205				C
ATOM	12984	N	ARG					88.274	1.00		0
ATOM	12986					40.000	116.633	86.047	1.00		N
		CA	ARG			41.825	117.748	86.005	1.00		C
MOTA	12988	CB	ARG			41.897	118.209	84.552	1.00	20.24	С
MOTA	12991	CG	ARG	D	318	42.857	119.365	84.244	1.00		Č
ATOM	12994	CD	ARG	D	318	42.898	119.694	82.750	1.00		
ATOM	12997	NE	ARG			44 023	120.541				C
ATOM	12999	CZ	ARG					82.434	1.00		N
							120.582	81.273	1.00		С
ATOM	13000		ARG			44.284	119.804	80.261	1.00	29.30	N
MOTA	13003	NH2	ARG	D	318	45.658	121.431	81.123	1.00		N
ATOM	13006	С	ARG	D	318	41,422	118.921	86.898	1.00		
ATOM	13007	0	ARG			12 277	119.707				C
ATOM	13008	Ŋ				42.211	119.707	87.320	1.00		O
			ARG			40.110	118.998	87.152	1.00 2	20.23	N
MOTA	13010	CA	ARG			39.430	120.077	87.865	1.00 2	20.95	С
ATOM	13012	CB	ARG	D	319	38.140	120.431	87.122	1.00 2		Č
ATOM	13015	CG	ARG	D	319		120.791	85.656	1.00 2		
ATOM	13018	CD	ARG				122.302				C
ATOM	13021							85.384	1.00 2		С
		NE	ARG			38.068	122.655	84.029	1.00	31.34	N
ATOM	13023	CZ	ARG			38.648	122.190	82.929	1.00	34.77	C
ATOM	13024	NH1	ARG	D	319	39.675	121.348	82.992	1.00		N
ATOM	13027	NH2	ARG	D	319		122.558	81.745	1.00		
ATOM	13030	С	ARG			30 036	119.718				Ŋ
ATOM	13031		ARG			20.033	170 CC4	89.295	1.00 2		С
						38.483	120.551	90.020	1.00 2		0
ATOM	13032	N	TYR	n	320	39.317	118.479	89.682	1.00 2	20.75	N
MOTA	-13034	-CA	TYR_	D_	320_	38.916	117.943	90.971	1.00 2		Č
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MOTA	13036	СВ	TYR				39.061	116.422	90.978	1.00	20.70	
ATOM	13039	CG	TYR	D	320		38.692	115.770	92.292		20.35	
MOTA	13040		TYR		320		37.376	115.469	92.591		19.94	
ATOM	13042		TYR		320		37.032	114.857	93.781		19.67	
ATOM	13044	CZ	TYR		320		38.007	114.552	94.694		19.88	
ATOM	13045	OH	TYR	_	320		37.652	115.469 114.857 114.552 113.950 114.845 115.442 118.546	95.881		20.01	
ATOM	13047	CE2	TYR	ם	320		39.324	114.845	94.422	1.00	19.88	
ATOM	13049	CD2	TYR	D	320		39.661	115.442	93.224	1.00	20.15	
ATOM	13051	C	TYR	ם	320		39.741	118.546	92.101	1.00	20.94	
ATOM	13052	0	TYK	ם	320		40.968	118.564	92.056	1.00	20.78	
ATOM	13053	N .	ASN	ח	321		39.022	119.013	93.111	1.00	21.28	
ATOM	13055	CA	ASN	ח	321		39.555	119.586	94.329	1.00	21.69	
ATOM ATOM	13057 13060	CB	ASN	ח	321		38.626	120.746	94.733	1.00	21.83	
ATOM	13060	CG	ASN	ח	321		39.303	121.809	95.576	1.00	20.95	
ATOM	13062	MD3	ASN ASN	ח	321 371		39.061	122.995	95.390	1.00	19.43	•
ATOM	13062	C NDZ	NCM	ח	321		40.127	121.393	96.515	1.00	20.93	
ATOM	13065	0	AON	ח	321		39.542	118.458	95.387	1.00	22.23	
ATOM	13067	N	HICH	ח	323 27T		40 704	117.931	95.726	1.00	21.54	
ATOM	13069	CA	nic	ח	322		40.724	118.085	92.891	1.00	22.96	
ATOM	13071	CB	UTC	ח	322		40.010	117.021	96.900	1.00	23.77	•
ATOM .	13074	CG	UTC	ח	322		42.149	110.236	96.795	1.00	24.07	
ATOM	13075	ND1	HIS	n	322		42.101	113 050	97.456	1.00	25.78	
ATOM	13073	CE1	HIS	ם	322		41.100	113.930	97.202	1.00	26.82	
ATOM	13077	NE2	HIS	ח	322		41.309	112.070	97.935	1.00	26.95	
ATOM	13081	CD2	HIS	n	322		42.332	114 310	20.007	1.00	27.14	
ATOM	13083	C	HTS	ח	322		40 538	117 501	20.353	1.00	26.71	
ATOM	13084	Õ	HTS	ח	322		40.330	116 683	90.334	1.00	23.63 23.64	
ATOM	13085	N	GLU	D	323		40.532	118 817	99.230	1 00	23.40	
ATOM	13087	CA	GLU	D	323		40.110	119 408	99 826	1 00	23.40	
ATOM	13089	СВ	GLU	D	323		40.597	120.851	99 929	1 00	23.45	•
ATOM	13092	CG	GLU	D	323		42.102	121.033	94.422 93.224 92.101 92.056 93.111 94.7376 95.395.395 95.395.395 95.395.395 95.395 96.7456 97.2935 98.3561 99.857 98.3561 99.857 101.248 100.949 10	1.00	23.43	
ATOM	13095	CD	GLU	D	323		42.808	120.540	101.104	1.00	24.52	
ATOM	13096	OE1	GLU	D	323		42.437	120.944	102.248	1.00	23.26	
ATOM	13097	OE2	GLU	D	323		43.748	119.744	100.914	1.00	24.55	
MOTA	13098	C	GLU	D	323		38.590	119.418	99.949	1.00	22.98	
ATOM	13099	0	GLU	D	323		38.043	119.013	100.970	1.00	22.89	
ATOM	13100	N	THR	D	324		37.917	119.905	98.908	1.00	22.80	
MOTA	13102	CA	THR	D	324		36.462	120.107	98.930	1.00	22.50	
MOTA	13104	CB	THR	Ď	324		36.072	121.409	98.159	1.00	22.59	
MOTA	13106	OG1	THR	D	324	•	36.456	121.322	96.782	1.00	22.02	
MOTA	13108	CG2	THR	D	324	-	36.863	122.623	98.664	1.00	22.66	
ATOM	13112	C	THR	D	324		35.689	118.910	98.372	1.00	22.31	
MOTA	13113	0	THR	D	324		34.472	118.857	98.498	1.00	21.79	
ATOM	13114	N	GLU	D	325		36.414	117.955	97.778	1.00	22.45	
MOTA	13116	CA	GLU	ם	325		35.851	116.735	97.156	1.00	22.39	
ATOM	13118	CB	GLU	מ	325		35.239	115.774	98.220	1.00	22.70	
ATOM.	13121	CG	GTO	ח	325		36.033	115.582	99.525	1.00	23.36	
MOTA MOTA	13124	CD	GLU	מ	325		37.010	114.396	99.538	1.00	24.78	
ATOM	13125 13126	OFI	GLU	ט	325		37.499	114.040			25.95	•
ATOM	13127	C	GLU					113.820	98.477		26.11	
ATOM	13128	Ö	GLU	ח	325			117.048	96.035		21.81	
ATOM	13129	N	CYS	מ	325			116.385	95.914		21.16	
ATOM	13131	CA	CYS	ש	326			118.052 118.552	95.215		21.65	
MOTA	13133	CB	CYS	ח	326			118.552	94.164		21.65	
MOTA	13136	SG	CYS					119.877	94.582		21.65	
ATOM	13137	C	CYS					118.851	96.151 92.850		20.33	
ATOM	13138	Õ	CYS	Ď	326			119.355	92.836		21.87	•
ATOM	13139	N	ILE					118.615	91.751		22.65	
ATOM	13141	CA	ILE	D	327			119.019	90.434		23.54	
•							-			2.00		

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13174 13176 13180 13181 13182 13184 13186 13190 13192 13194 13196 13200 13201 13202 13204 13206 13214 13215 13216 13218 13222 13223 13223 13223 13235 13237 13237 13244 13246	CE1 CZ CE2 CD2 C O N CA CB CG2 C O N CA CB CCD1 CZ CD2 C C O N CA CB CCD1 CCD1 CCD1 CCD1 CCD1 CCD1 CCD1 C	ALA ALA ALA PHE PHE PHE PHE PHE PHE PHE PHE PHE PHE		3299993333333333333444455555555555555566666666		33.905 33.818 32.506 33.917 33.417 30.476 30.414 29.334 27.320 28.281 29.2831 31.736 31.736 31.348 32.354 33.275 29.2831 30.375 29.2831 27.2876 27.2876 27.2876 27.2876 27.2876	123.493 122.575 122.753 122.163 124.212 125.089 127.084 125.947 126.341 127.245 126.745 127.573 128.603 124.711 124.156 123.016 123.368 124.711 124.296 123.368 124.398 122.372 129.624 119.624 119.624 119.624 119.628 121.869 122.196 123.193 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533 121.533	87.724 87.7259 86.932 85.595 85.788 85.788 85.788 86.7234 88.7522 88.75234 88.75234 88.75234 88.75234 88.75234 89.9127 99.127	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	27.63 27.70 27.88 27.77 28.03 24.53 24.53 24.62 26.25 27.16 27.27 27.23 23.95 23.28 22.32 23.32 24.32 24.32 25.32 26.32 27	CCCONCCCCNCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ATOM	13233	CD2	TYR	D	335	2	7.386	120.523	89.799			C
	13236											C
						2	9.815	118.262	93.996	1.00	21.64	N
			SER	D	336	2	9.778	117.429	96.261	1.00	21.14	C
ATOM	13246	C	SER	D	336			117.430	94.375		20.49	O C
MOTA MOTA	13247 13248	0	SER					115.811	93.388		21.91	0
ATOM	13250	N CA	LYS LYS					114.743 113.451	95.080 94.832		21.87 21.71	И
MOTA	13252	CB	LYS	D	337			112.396	95.827		21.69	C
MOTA	13255	CG	LYS					111.632	95.402	1.00	22.07	С
ATOM ATOM	13258 13261	CD CE	LYS LYS					111.100	96.629		22.88	· C
ATOM	13264	NZ	LYS					110.094 108.758	96.242 95.963		23.03 23.33	C N
												

MOTA MOTA	13268 13269	C O	LYS LYS				113.581 113.113	94.944 94.082	1.00 21.72 1.00 21.42			C O
ATOM	13270	N	ASP		338		114.228	96.021	1.00 21.83			Ŋ
MOTA	13272	CA	ASP				114.419	96.288	1.00 21.83			C
MOTA	13274	СВ	ASP				115.180	97.604	1.00 21.84	•		, C.
ATOM	13277	CG	ASP				115.141	98.086	1.00 21.87			C
ATOM ATOM	13278 13279		ASP ASP				116.180 114.107	98.580	1.00 21.66			, 0
ATOM	13279	C	ASP				114.107	98.005 95.152	1.00 22.04 1.00 21.77		•	. O
ATOM	13281	Ö	ASP				114.848	94.860	1.00 21.77			Ö
ATOM	13282	N	ASP				116.094	94.525	1.00 21.74			Ŋ
MOTA	13284	CA	ASP				116.899	93.449	1.00 21.88			, C
ATOM	13286	CB	ASP				118.038	93.050	1.00 22.05			С
MOTA	13289	CG	ASP				119.120	94.091	1.00 21.96			С
MOTA	13290		ASP				119.470	94.707	1.00 22.87			0
MOTA	13291		ASP				119.692	94.339	1.00 22.06			0
MOTA MOTA	13292 13293	С 0	ASP ASP				116.080 116.314	92.203 91.526	1.00 21.86 1.00 21.72		•	C
ATOM	13294	Ŋ	PHE				115.146	91.879	1.00 21.72	•		N
ATOM	13296	CA	PHE				114.243	90.774	1.00 21.96	•		C
ATOM	13298	CB	PHE				113.275	90.563	1.00 21.67		•	č
ATOM	13301	CG			340		113.834	89.737	1.00 20.36			Č
ATOM	13302	CD1	PHE	Ď	340	28.533	115.031	90.078	1.00 18.74			С
MOTA	13304		PHE				115.525	89.340	1.00 18.16			С
MOTA	13306	CZ			340		114.830	88.240	1.00 18.95		•	С
ATOM	13308		PHE				113.620	87.883	1.00 18.94			C
ATOM ATOM	13310 13312	CD2	PHE		340		113.130	88.633 91.114	1.00 19.62			C
ATOM	13312	Ö			340		113.475	90.348	1.00 22.63 1.00 22.45			0
ATOM	13314	N			341		112.860	92.296	1.00 23.66			N
ATOM	13316	CA			341		112.022	92.750	1.00 24.57			Č
ATOM	13318	CB			341.		111.335	94.087	1.00 24.61			č
MOTA	13321	CG	HIS	D	341		110.415	94.606	1.00 24.90			C
MOTA	13322		HIS				109.253	93.957	1.00 25.23			N
ATOM	13324		HIS				108.657	94.638	1.00 25.18			С
ATOM ATOM	13326 13328		HIS HIS				109.390	95.704	1.00 24.35			И
ATOM	13330	CDZ			341		110.494	95.708 92.841	1.00 24.37 1.00 25.22			ROUUUROUUROROUROUUUROROUUROROROROROROURO
ATOM	13331	ŏ			341		112.182	92.612	1.00 25.22			Ö
ATOM	13332	N			342		114.076	93.141	1.00 25.94			Ň
ATOM	13334	CA			342		114.917	93.156	1.00 26.51			C
ATOM	13336	CB			342		116.260	93.843	1.00 26.53	i		. C
MOTA	13339	CG			342		116.387	95.277	1.00 27.35	1		C
MOTA	13342	CD			342		116.453	96.376	1.00 28.04			. C
ATOM ATOM	13345 13347	NE CZ	ARG		342		117.526 118.692	97.343 97.396				
ATOM	13348		ARG				118.984	96.539	1.00 28.32 1.00 27.50		•	C N
ATOM	13351		ARG				119.583	98.328	1.00 28.66			N
ATOM	13354	C			342		115.165	91.737	1.00 26.96			C
MOTA	13355	0	ARG	D	342		115.518	91.584	1.00 26.59			ō
MOTA	13356	N			343		114.981	90.718	1.00 27.71			. N
MOTA	13358	CA			343		115.056	89.297	1.00 28.17			С
ATOM	13360	CB			343		115.420	88.420	1.00 28.01			С
ATOM ATOM.	13364 13365	С 0			343 343		113.771	88.776 87.573	1.00 28.68			C
ATOM.	13366	И			344		112.826	89.671	1.00 28.97 1.00 29.34			O N
ATOM	13368	CA			344		111.539	89.319	1.00 29.76			N C
ATOM	13371	C			344		7 110.430	88.982	1.00 30.22			Ċ.
MOTA	13372	0.			344		2 109.326	88.648	1.00 30.33			Õ.
MOTA	13373	N			345		110.703	89.079	1.00 30.59			N
MOTA	13375	CA	LEU	D	345	22.43	5 109.761	88.619	1.00 30.99	•		·C

MOTA	13377	CB	LEU	D	345	23.785	110.482	88.392	1.00 31.13	С
ATOM	13380	CG	LEU		345		111.635			0
								87.372	1.00 31.54	С
MOTA	13382		LEU		345		111.914	87.000	1.00 31.62	С
ATOM	13386	CD2	LEU	D	345	23.052	111.376	86.110	1.00 32.03	C
ATOM	13390	С	LEU	D	345		108.545	89.541	1.00 31.08	Č
ATOM	13391	0	LEU				108.620	90.768	1.00 31.20	0
MOTA	13392	N	GLN	D	346	23.027	107.431	88.903	1.00 31.06	N
MOTA	13394	CA	GLN	D	346	23.442	106.191	89.556	1.00 31.00	C
MOTA	13396	СВ	GLN				105.111	88.503	1.00 31.10	č
										2
MOTA	13399	CG	GLN				104.170	88.205	1.00 31.85	C
ATOM	13402	CD	GLN	D	346		102.995	87.321	1.00 32.92	С
ATOM	13403	OE1	GLN	D	346	22.733	101.826	87.639	1.00 33.78	0
ATOM	13404	NE2	GLN				103.301		1.00 31.83	N
							106.377			
MOTA	13407	C			346			90.352	1.00 30.85	C
ATOM	13408	0	GLN	D	346		106.977	89.859	1.00 30.87	0
MOTA	13409	N	VAL	D	347	24.749	105.808	91.560	1.00 30.65	N
ATOM	13411	CA			347		105.682	92.394	1.00 30.36	Ċ
										<u> </u>
MOTA	13413	CB			347		104.859	93.673	1.00 30.19	С
MOTA	13415	CG1	VAL	D	347		104.399	94.373	1.00 29.60	С
ATOM	13419	CG2	VAL	D	347	24.768	105.690	94.621	1.00 30.41	С
MOTA	13423	C			347		104.988	91.657	1.00 30.12	Ċ
	13424									
ATOM		0			347		105.346	91.783	1.00 30.18	0
MOTA	13425	N	GLU	D	348		. 104.007	90.857	1.00 29.75	N
ATOM	13427	CA	GLU	D	348	27.602	2 103.018	90.263	1.00 29.12	С
MOTA	13429	CB			348	26.732	2 101.823	89.789	1.00 29.32	c
ATOM	13432	CG			348		101.775	90.485		Č
									1.00 30.20	2
ATOM	13435	CD			348		100.410	90.574	1.00 32.08	С
ATOM	13436	OE1			348	25.304	99.410	90.160	1.00 34.02	0
ATOM	13437	OE2	GLU	D	348	23.538	3 100.334	91.079	1.00 32.31	0
ATOM	13438	C			348		103.693	89.153	1.00 28.19	Č
MOTA	13439	0			348		103.227	88.795	1.00 27.93	0
MOTA	13440	N			349		104.822	88.656	1.00 27.37	N
MOTA	13442	CA	PHE	D	349	28.64	7 105.740	87.768	1.00 26.58	С
ATOM	13444	СВ			349		106.528	86.883	1.00 26.82	C
ATOM	13447	CG			349		107.529	85.946	1.00 27.76	č
										C
MOTA	13448		PHE				107.114	84.989	1.00 27.85	C
MOTA	13450	CE1	PHE	D	349	29.80	L 108.004	84.136	1.00 27.86	C
MOTA	13452	CZ	PHE	D	349	29.49	7 109.347	84.222	1.00 29.09	С
ATOM	13454	CE2	PHE				1 109.792	85.162	1.00 29.42	Č
ATOM	13456				349		108.885			C
								86.019	1.00 29.04	<u>_</u>
MOTA	13458	С			349		3 106.723	88.561	1.00 25.28	C
ATOM	13459	0	PHE	D	349	30.65	9 106.943	88.219	1.00 24.79	0
ATOM	13460	N	ILE	D	350	28.93	2 107.300	89.613	1.00 24.05	N
ATOM	13462	CA			350		108.370	90.381	1.00 23.28	и С С
					350			91.482		2
MOTA	13464	СВ					1 108.917			_
ATOM	13466		ILE				109.695	90.831	1.00 22.93	С
MOTA	13469	CD1	ILE	D	350	26.21	2 109.857	91.698	1.00 21.90	C
MOTA	13473		ILE				109.847	92.496	1.00 22.95	C
ATOM	13477	c			350		3 107.961			Č
								91.024	1.00 22.81	C
MOTA	13478	0			350		7 108.721	90.983	1.00 22.60	0
MOTA	13479	N	ASN	D	351	30.92	5 106.780	91.629	1.00 22.37	N
MOTA	13481	CA	ASN	D	351	32.08	6 106.381	92.427	1.00 22.38	C
MOTA	13483	CB			351		1 105.140	93.290	1.00 22.44	Ċ
ATOM										
	13486	CG			351		4 105.452	94.453	1.00 22.56	C
ATOM	13487		ASN				9 106.489	95.104	1.00 23.39	0
MOTA	13488	ND2	ASN	D	351	29.86	1 104.544	94.710	1.00 20.88	N
MOTA	13491	С			351		3 106.197	91.599	1.00 22.35	Ċ
ATOM	13492	Õ			351		6 106.707	91.999		
									1.00 21.94	0
ATOM	13493	N			352		3 105.466	90.477	1.00 22.41	N
MOTA	13494	CA			352		1 105.455	89.507	1.00 22.36	C
ATOM_	13496_	_CB_	_PRO	_D	352	33.92	6 104.530	88.402	1.00 22.66	С

ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13499 13502 13505 13506 13507 13509 13511	CD C	PRO PRO PRO PRO ILE ILE ILE	D D D D D	352 352 352 353 353	32.280 34.860 36.065 33.909 34.230	103.627 104.516 106.836 107.048 107.733 109.097 110.004	89.100 90.085 88.932 88.772 88.638 88.202 88.087	1.00 22.54 1.00 22.68 1.00 22.23 1.00 21.99 1.00 21.92 1.00 22.00 1.00 22.56	
ATOM ATOM	13513 13516	CG1	ILE	D	353	32.008	109.566 108.789	86.971 85.859	1.00 23.46 1.00 25.94	C
ATOM ATOM	13520 13524		ILE .	D	353	33.330	111.482 109.773	87.823 89.170	1.00 23.55 1.00 21.70	C
MOTA-	13525	0	ILE	D	353	36.158	110.370	.88.769	1.00 21.04	0
ATOM ATOM	13526 13528	N CA	PHE PHE				109.703 110.409	90.447 91.499	1.00 21.95 1.00 22.21	N C
ATOM	13530	CB	PHE	D		34.597	110.640	92.701	1.00 22.27	· C
ATOM	13533	CG.	PHE		354		111.879	92.571	1.00 23.48	C
MOTA MOTA	13534 13536		PHE PHE				111.953 113.101	91.602 91.485	1.00 24.85 1.00 24.80	C C
ATOM	13538	CZ	PHE				114.180	92.333	1.00 24.80	C
MOTA	13540	CE2	PHE	D	354	33.125	114.121	93.288	1.00 23.68	, C
ATOM	13542		PHE				112.980	93.406	1.00 23.84	С
MOTA MOTA	13544 13545	С 0	PHE PHE				109.703 110.367	91.888 92.105	1.00 22.27 1.00 21.82	C.
ATOM	13546	N	GLU			36.804	108.368	91.947	1.00 22.53	N
ATOM	13548	CA	GLU				107.565	92.166	1.00 22.94	С
ATOM	13550 13553	CB CG	GLU GLU				106.059 105.055	.92.216 91.844	1.00 23.60 1.00 26.19	. C
ATOM ATOM	13556	CD	GLU				103.533	91.983	1.00 29.80	· c
ATOM	13557	OE1	GLU	D	355	38.313	102.821	90.953	1.00 30.45	0
ATOM	13558						103.146	93.128	1.00 28.86	. 0
ATOM ATOM	13559 13560	С 0	GLU GLU				107.881 108.075	91.069 91.341	1.00 22.55 1.00 22.51	C
ATOM	13561	N	PHE		356		107.962	89.831	1.00 22.09	N
ATOM	13563	CA	PHE				108.252	88.714	1.00 21.85	С
ATOM ATOM	13565 13568	CB CG	PHE		356 356		108.236 108.563	87.389 86.161	1.00 21.68 1.00 20.25	. C
ATOM	13569		PHE				107.643	85.647	1.00 20.25	C
MOTA	13571	CE1	PHE	D	356	41.125	107.925	84.516	1.00 20.32	С
ATOM	13573	CZ	PHE		356		109.155	83.857	1.00 20.78	C.
ATOM ATOM	13575 13577	CE2	PHE PHE	מ	356		110.083 109.775	84.353 85.506	1.00 20.72 1.00 20.37	C C
ATOM	13579	C			356		109.613	88.932	1.00 22.21	č
MOTA	13580	0			356		109.776	88.746	1.00 22.62	0
ATOM ATOM	13581 13583	N CA	SER		357 357		110.581 · 111.965	89.338 89.441	1.00 22.26 1.00 22.46	И С
ATOM	13585	CB			357		112.854	89.725	1.00 22.55	c
MOTA	13588	OG	SER	D	357	37.497	112.608	88.748	1.00 23.09	. 0
MOTA	13590	C			357		112.123	90.540	1.00 22.77	C
ATOM ATOM	13591 13592	O N			357 358		112.749	90.336 91.705	1.00 22.80 1.00 23.22	. О
ATOM	13594	CA			358		111.441	92.822	1.00 23.69	С
ATOM	13596	CB			358		110.539	93.895	1.00 23.84	С
ATOM ATOM	13599 13602	CG CD			358 358		111.209	94.976 96.194	1.00 24.37 1.00 26.14	. c
ATOM	13605	NE	·ARG				108.888	95.840	1.00 28.42	Ŋ
MOTA	13607	CZ	ARG	D	358	38.343	108.249	95.780	1.00 29.21	C
ATOM ATOM	13608 13611		ARG ARG				108.883	96.034 95.450	1.00 29.97 1.00 27.86	N . N
ATOM	13614	C			358		110.830	92.426	1.00 27.86	
ATOM	13615	0	ARG	D	358	43.751	111.291	92.843	1.00 24.03	0
ATOM	13616	N	ALA	D	359	42.646	5 109.761	91.657	1.00 24.70	N
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ATOM ATOM ATOM	13618 13620 13624		ALA ALA ALA	D	359	43.518	109.060 107.709 109.895	91.284 90.658 90.320	1.00 25.97 1.00 26.12 1.00 26.89	C C C
ATOM ATOM	13625 13626	О И	ALA MET	D	359		109.899 110.595	90.386 89.422	1.00 27.13 1.00 27.85	· O
ATOM	13628	CA	MET		360		111.460	88.446	1.00 28.56	
ATOM	13630	CB	MET	D	360	43.597	112.080	87.546	1.00 28.45	С
MOTA	13633	CG	MET		360		112.313	86.120	1.00 30.11	C
MOTA MOTA	13636 13637	SD CE	MET MET		360 360		110.883 109.810	85.113 85.823	1.00 28.53 1.00 34.13	s C
ATOM	13641	C	MET				112.569	89.155	1.00 29.08	Č
ATOM	13642	0	MET	D	360	46.510	112.954	88.745	1.00 29.36	0
MOTA	13643	N	ARG				113.076	90.227	1.00 29.70	N
ATOM ATOM	13645 13647	CA CB	ARG ARG				114.136 114.577	91.017 92.114	1.00 30.30 1.00 31.01	N C C
ATOM	13650	CG	ARG				116.079	92.461	1.00 33.71	č
ATOM	13653	CD	ARG			44.105	117.057	91.292	1.00 36.07	C
MOTA	13656	NE	ARG				118.427	91.594	1.00 38.11	N
MOTA	13658	CZ	ARG				119.551 119.521	91.130 90.303	1.00 39.33 1.00 40.49	. С
ATOM ATOM	13659 13662		ARG ARG				120.725	91.492	1.00 40.49	N
ATOM	13665	C	ARG				113.722	91.626	1.00 29.88	Ċ
ATOM	13666	0	ARG	D	361		114.546	91.763	1.00 30.15	0
MOTA	13667	N	ARG				112.446	91.985	1.00 29.65	N
MOTA MOTA	13669 13671	CA CB			362 362		111.878 110.507	92.511 93.169	1.00 29.18 1.00 29.35	C
ATOM	13674	CG			362		110.584	94.575	1.00 30.19	č
ATOM	13677	CD	ARG	D	362	47.282	109.249	95.323	1.00 31.60	C C
ATOM	13680	NE			362		108.648	95.253	1.00 32.65	N
MOTA	13682	CZ	ARG ARG		362		107.717 107.224	94.377 93.461	1.00 33.54 1.00 34.22	C
MOTA MOTA	13683 13686		ARG				107.271	94.412	1.00 34.22	. N
ATOM	13689	C			362		111.729	91.447	1.00 28.41	C
MOTA	13690	0			362		111.699	91.775	1.00 28.03	0
ATOM	13691	N			363		111.593	90.181	1.00 27.94 1.00 27.63	N C
ATOM ATOM	13693 13695	CA CB			363 363		111.656	89.066 87.757	1.00 27.65	C
ATOM	13698	CG			363		109.647	87.420	1.00 29.01	Č
MOTA	13700		LEU	D	363		109.324	86.037	1.00 29.75	C C
ATOM	13704		LEU				109.230	87.468	1.00 29.68	C
ATOM ATOM	13708 13709	CO			363 363		113.091	88.854 88.377	1.00 26.67 1.00 26.33	. C
ATOM	13710	N			364		114.069	89.200	1.00 25.70	Ŋ
MOTA	13712	CA	GLY	D	364		115.471	89.097	1.00 25.00	C
ATOM	13715	C			364		115.827	87.698	1.00 24.46	C
ATOM ATOM	13716 13717	N O			364 365		116.319	87.512 86.707	1.00 24.19 1.00 23.82	O
ATOM	13719	CA			365		115.950	85.340	1.00 23.63	Č
ATOM	13721	CB	LEU	D	365		115.348	84.333	1.00 23.97	C
MOTA	13724	CG			365		113.823	84.122	1.00 25.37	C
ATOM ATOM	13726 13730		LEU LEU				113.520 113.110	82.731 84.331	1.00 26.39 1.00 25.72	. C
ATOM	13734	CDZ			365		117.485	85.176	1.00 23.72	c
ATOM	13735	ŏ			365	49.017	118.206	85.825	1.00 22.40	ő
MOTA	13736	N			366		117.964	84.303	1.00 21.78	N
MOTA	13738	CA			366		119.384	83.959	1.00 21.15	C
MOTA MOTA	13740 13743	CB CG			366 366		2 119.895 9 119.161	83.946 82.977	1.00 20.82 1.00 19.90	C C
ATOM	13744		ASP				5 118.498	82.080	1.00 19.99	. 0
MOTA	13745	OD2	ASP	D	366	54.31	119.183	83.027	1.00 19.11	0
ATOM	13746	<u>C</u>	ASP	D	366	50.023	3 119.609	82.631	1.00 20.87	C

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ATOM	13747	0	ASP I		49.38	7 118.696	82.105	1.00 20.68
ATOM	13748	N	ASP I		50.09			1.00 20.37
ATOM	13750	CA	ASP I		49.33		80.906	1.00 20.07
ATOM	13752	СВ	ASP I		49.37		80.651	1.00 20.06
MOTA MOTA	13755	CG	ASP I		48.58		81.707	1.00 20.54
ATOM	13756 13757		ASP I		47.75			1.00 19.80
ATOM	13758	OD2 C	ASP I		48.73		81.855	1.00 22.21
ATOM	13759	Ö	ASP I		49.81		79.677	1.00 19.79
ATOM	13760	N	ALA I		49.00			1.00 20.20
ATOM	13762	CA	ALA I		51.11 51.67			1.00 19.10
MOTA	13764	CB	ALA D		53.17		78.404 78.454	1.00 18.97
ATOM	13768	C	ALA D		51.24		78.420	1.00 19.22 1.00 19.05
ATOM	13769	0	ALA D		50.89		77.382	1.00 19.05 1.00 19.42
ATOM	13770	N	GLU D	369	51.26	3 117.453	79.613	1.00 19.42
MOTA	13772	CA	GLU D		51.01		79.791	1.00 17.67
ATOM	13774	CB	GLU D		51.44	4 115.590	81.187	1.00 17.57
ATOM	13777	CG	GLU D		52.95		81.330	1.00 16.91
ATOM ATOM	13780 13781	CD	GLU D		53.43		82.779	1.00 15.04
ATOM ATOM	13781	OE1			54.56		83.036	1.00 13.47
ATOM	13783	OE2 C	GLU D			6 115.681	83.685	1.00 15.20
ATOM	13784	Ö	GLU D		49.55		79.556	1.00 17.63
ATOM	13785	N	TYR D		49.219 48.67		78.920	1.00 18.08
ATOM	13787	CA	TYR D		47.26		80.025 79.794	1.00 17.66
MOTA	13789	CB	TYR D		46.38		80.517	1.00 18.30 1.00 18.67
ATOM	13792	CG	TYR D		45.808		81.801	1.00 18.67 1.00 21.05
MOTA	13793	CD1			46.142		83.028	1.00 21.05
ATOM	13795	CE1			45.62		84.221	1.00 23.23
ATOM	13797	CZ	TYR D		44.768		84.229	1.00 23.91
ATOM ATOM	13798	OH	TYR D				85.440	1.00 23.59
ATOM	13800 13802	CE2			44.409		83.028	1.00 24.96
ATOM	13802	CD2 C	TYR D			115.783	81.808	1.00 22.06
ATOM.	13805	Ö	TYR D		46.953 46.259		78.319	1.00 18.19
ATOM	13806	N	ALA D		47.491	115.603	77.791	1.00 17.82
ATOM	13808	CA	ALA D		47.179	117.493	77.668 76.272	1.00 18.69
ATOM	13810	CB	ALA D		47.795		75.852	1.00 18.52 1.00 18.43
ATOM	13814	С	ALA D	371		116.674	75.390	1.00 18.43 1.00 18.35
MOTA	13815	0	ALA D	371	46.945	116.232	74.487	1.00 18.18
ATOM	13816	N	LEU D	372	48.847	116.170	75.693	1.00 18.25
MOTA	13818	CA	LEU D	372		115.028	74.964	1.00 18.98
ATOM ATOM	13820 13823	CB	LEU D	372	50.807		75.415	1.00 18.86
ATOM	13825	CG CD1	LEU D		51.815		74.853	1.00 18.92
ATOM	13829	CDI	LEU D	372	53.181	115.643	75.548	1.00 18.38
ATOM	13833	C	LEU D	372	31.934 40 Ena	115.533 113.760	73.353	1.00 19.42
ATOM	13834	Õ	LEU D		40.503	113.760	75.099	1.00 19.72
ATOM	13835	N	LEU D		47.971	113.530	74.154 76.292	1.00 19.43
ATOM	13837	CA	LEU D	373	47.180	112.329	76.292	1.00 20.97 1.00 21.51
ATOM	13839	CB	LEU D	373	46.819	112.225	78.068	1.00 21.51
ATOM	13842	CG	TEA D	373	47.579	111.219	78.927	1.00 23.19
ATOM	13844		LEU D		46.906	111.138	80.293	1.00 24.13
ATOM ATOM	13848		TEA D	373		109.871	78.243	1.00 23.08
ATOM	13852 13853	C	LEU D		45.909	112.368	75.786	1.00 21.12
ATOM	13854	N N	LEU D	3/3		111.332	75.360	1.00 20.97
ATOM	13856	CA	ILE D	374		113.560	75.605	1.00 20.62
ATOM	13858	CB	ILE D		44.163	113.654 115.011	74.868	1.00 21.18
MOTA	13860	CG1	ILE D	374	43.363	115.011	74.986	1.00 21.45
ATOM	13863		ILE D			116.846	76.456 76.721	1.00 22.09 1.00 20.83
							.0.721	1.00 20.03

ATOM 13871 C ILE D 374 44.441 113.354 73.397 1.00 51.37 ATOM 13873 N ALA D 375 45.496 113.944 72.845 1.00 20.97 ATOM 13875 CA ALA D 375 45.496 113.944 72.845 1.00 20.97 ATOM 13875 CB ALA D 375 45.496 113.944 72.845 1.00 20.97 ATOM 13876 CB ALA D 375 45.892 113.693 71.456 1.00 20.57 ATOM 13881 C ALA D 375 46.012 112.193 71.261 1.00 20.156 ATOM 13882 O ALA D 375 46.012 112.193 71.261 1.00 20.156 ATOM 13883 N ILE D 376 46.787 111.582 72.152 1.00 19.98 ATOM 13885 CA ILE D 376 46.787 111.582 72.152 1.00 19.98 ATOM 13887 CB ILE D 376 46.787 111.582 72.152 1.00 19.98 ATOM 13889 CG1 ILE D 376 47.960 109.772 73.381 1.00 19.91 ATOM 13892 CD1 ILE D 376 47.960 109.772 73.087 1.00 20.60 ATOM 13892 CD1 ILE D 376 47.960 109.772 73.087 1.00 20.60 ATOM 13890 C ILE D 376 49.370 110.321 73.087 1.00 20.60 ATOM 13890 C ILE D 376 45.592 100.383 72.172 1.00 20.60 ATOM 13900 C ILE D 376 45.592 100.383 72.172 1.00 20.24 ATOM 13901 O ILE D 376 45.592 100.383 72.172 1.00 20.26 ATOM 13900 C ILE D 376 45.592 100.383 72.172 1.00 20.20 ATOM 13900 C AASN D 377 42.804 109.144 73.193 1.00 20.20 ATOM 13900 CG ASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.818 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.480 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.480 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.480 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.480 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.480 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.480 109.147 73.193 1.00 20.20 ATOM 13910 CD AASN D 377 42.480 109.147 7	ATOM	13867	CG2	ILE	D 374	42.339 115.092 74.048 1.00 21.96
ATOM 13872 O ILE D 374			С	ILE	D 374	44.441 113.354 73.397 1 00 21 27
ATOM 13875 CA ALA D 375			0	ILE		
ATOM 13877 CB ALAD 375 45.829 113.693 71.456 1.00 20.56 ATOM 13881 C ALAD 375 47.084 114.443 71.089 1.00 20.56 ATOM 13881 C ALAD 375 46.012 112.193 71.261 1.00 20.11 ATOM 13882 O ALAD 375 45.441 111.611 70.362 1.00 19.98 ATOM 13883 N LLE D 376 46.787 111.582 72.152 1.00 20.02 ATOM 13885 CA LLE D 376 47.047 110.161 72.141 1.00 19.93 ATOM 13889 CGI LLE D 376 47.960 109.772 73.318 1.00 19.93 ATOM 13889 CGI LLE D 376 47.960 109.772 73.318 1.00 19.91 ATOM 13890 CGI LLE D 376 47.960 109.772 73.318 1.00 19.91 ATOM 13890 CGI LLE D 376 45.743 109.353 74.173 1.00 20.60 ATOM 13890 CGI LLE D 376 45.743 109.353 74.173 1.00 20.60 ATOM 13900 C LLE D 376 45.743 109.353 72.172 1.00 20.24 ATOM 13901 O LLE D 376 45.743 109.353 72.172 1.00 20.24 ATOM 13902 N ASN D 377 44.806 109.843 72.988 1.00 20.20 ATOM 13900 CG ASN D 377 42.818 109.373 74.438 1.00 20.78 ATOM 13900 CG ASN D 377 42.818 109.373 74.742 1.00 20.07 ATOM 13910 ODLASN D 377 40.473 109.509 74.742 1.00 20.78 ATOM 13910 ODLASN D 377 40.473 109.509 74.742 1.00 20.78 ATOM 13910 ODLASN D 377 40.473 109.509 74.742 1.00 20.78 ATOM 13910 ODLASN D 377 40.473 109.509 74.742 1.00 20.78 ATOM 13910 ODLASN D 377 40.473 109.509 74.742 1.00 20.78 ATOM 13910 ODLASN D 377 40.473 109.329 74.066 1.00 20.78 ATOM 13910 ODLASN D 377 40.473 109.329 74.066 1.00 20.78 ATOM 13915 O ASN D 377 42.818 109.379 74.742 1.00 20.78 ATOM 13915 O ASN D 377 42.690 109.220 71.919 1.00 16.97 ATOM 13916 N LLE D 378 41.968 110.599 70.030 1.00 18.75 ATOM 13916 N LLE D 378 41.968 110.599 70.030 1.00 18.75 ATOM 13920 CG LLE D 378 41.948 111.472 70.341 1.00 19.26 ATOM 13920 CG LLE D 378 41.781 11.472 70.341 1.00 19.26 ATOM 13920 CG LLE D 378 41.781 11.472 70.341 1.00 18.79 ATOM 13920 CG LLE D 378 41.781 11.472 70.341 1.00 18.79 ATOM 13920 CG LLE D 378 41.781 11.472 70.341 1.00 18.79 ATOM 13920 CG LLE D 378 41.781 11.472 70.341 1.00 18.79 ATOM 13920 CG LLE D 378 41.781 11.472 70.341 1.00 18.79 ATOM 13920 CG LLE D 378 41.781 11.472 70.341 1.00 18.79 ATOM 13930 CD ATOM 13950 CD ATOM 13950 CD ATOM 13950 CD ATOM 13950 C						
ATOM 13881 C ALAD 0 375 47.084 114.443 71.089 1.00 20.50 1 ATOM 13882 C ALAD 0 375 46.012 112.193 71.261 1.00 20.51 1 ATOM 13883 N LIE D 376 46.787 111.582 72.152 1.00 20.191 ATOM 13883 N LIE D 376 47.047 110.161 72.141 1.00 19.93 ATOM 13885 CA LIE D 376 47.047 110.161 72.141 1.00 19.93 ATOM 13887 CB LIE D 376 47.047 110.161 72.141 1.00 19.93 ATOM 13889 CG1 LIE D 376 49.370 110.321 73.388 1.00 19.91 ATOM 13889 CG1 LIE D 376 49.370 110.321 73.087 1.00 20.60 ATOM 13890 CG LIE D 376 49.370 110.321 73.087 1.00 20.60 ATOM 13900 C LIE D 376 45.743 109.383 72.172 1.00 20.64 ATOM 13900 C LIE D 376 45.743 109.383 72.172 1.00 20.69 ATOM 13900 C LIE D 376 45.743 109.383 72.172 1.00 20.69 ATOM 13900 C ASN D 377 44.806 109.843 72.988 1.00 20.20 45 ATOM 13900 C ASN D 377 42.818 109.737 74.438 1.00 20.29 ATOM 13900 C ASN D 377 42.818 109.737 74.438 1.00 20.29 ATOM 13900 C ASN D 377 42.818 109.737 74.438 1.00 20.29 ATOM 13900 C ASN D 377 42.818 109.737 74.438 1.00 20.29 ATOM 13901 CD ASN D 377 40.473 109.329 74.066 1.00 23.08 ATOM 1391 NDZ ASN D 377 40.473 109.329 74.066 1.00 23.08 ATOM 13911 NDZ ASN D 377 40.473 109.329 74.066 1.00 23.08 ATOM 13915 N ASN D 377 42.690 109.230 71.919 1.00 19.92 ATOM 13915 N ASN D 377 42.690 109.230 71.919 1.00 19.26 ATOM 13918 CA LIE D 378 42.738 110.377 71.250 1.00 19.26 ATOM 13920 CB LIE D 378 42.738 110.377 71.250 1.00 19.26 ATOM 13932 CB LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13922 CB LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13932 CB LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13932 CB LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13933 C LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13933 C LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13933 C LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13933 C LIE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13933 C LIE D 378 42.608 109.230 77.1250 1.00 19.26 ATOM 13935 C PHE D 379 45.643 109.333 67.867 1.00 18.75 ATOM 13935 C PHE D 379 45.643 109.333 67.867 1.00 18.75 ATOM 13945 CB PHE D 379 46.000 112.736 66.255 1.00 14.16 6						45.829 113.693 71.456 1.00 20 37
ATOM 13882 O ALAD 0 375 46.012 112.193 71.261 1.00 20.19 98 ATOM 13883 N ILE D 376 46.787 111.582 72.152 1.00 20.02 ATOM 13885 CA LIE D 376 47.960 109.772 73.318 1.00 19.98 ATOM 13886 CB ILE D 376 47.960 109.772 73.318 1.00 19.93 ATOM 13889 CGI ILE D 376 47.960 109.772 73.318 1.00 19.93 ATOM 13896 CG ILE D 376 47.960 109.772 73.318 1.00 19.91 ATOM 13896 CG ILE D 376 49.370 110.321 73.367 1.00 20.60 ATOM 13906 CC LIE D 376 48.013 108.222 73.502 1.00 20.60 ATOM 13900 C LLE D 376 45.592 108.383 71.460 1.00 20.60 ATOM 13901 O LE D 376 45.592 108.383 71.460 1.00 20.20 ATOM 13902 N ASN D 377 44.806 109.843 72.988 1.00 20.20 ATOM 13904 CA ASN D 377 43.544 109.144 73.193 1.00 20.20 ATOM 13905 CB ASN D 377 41.464 109.059 74.742 1.00 20.78 ATOM 13910 ODI ASN D 377 41.464 109.059 74.742 1.00 20.78 ATOM 13910 DDI ASN D 377 41.464 109.059 74.742 1.00 20.97 ATOM 13910 DDI ASN D 377 41.493 108.228 71.560 1.00 16.97 ATOM 13916 N ILE D 378 41.993 108.278 71.560 1.00 16.97 ATOM 13916 N ILE D 378 41.993 108.278 71.560 1.00 16.97 ATOM 13918 CA ILE D 378 41.968 110.599 70.030 1.00 18.75 ATOM 13920 CB ILE D 378 41.968 110.599 70.030 1.00 18.75 ATOM 13920 CB ILE D 378 41.968 110.599 70.030 1.00 18.75 ATOM 13920 CB ILE D 378 41.968 110.599 70.030 1.00 18.75 ATOM 13920 CB ILE D 378 41.742 112.187 68.044 1.00 18.91 ATOM 13932 CB ILE D 378 41.742 112.187 68.044 1.00 18.91 ATOM 13933 C ILE D 378 41.742 112.187 68.044 1.00 18.79 ATOM 13930 CB PHE D 379 45.643 109.133 67.324 1.00 18.79 ATOM 13930 CB PHE D 379 45.643 109.133 67.324 1.00 18.79 ATOM 13930 CB PHE D 379 45.643 109.133 67.324 1.00 18.61 ATOM 13931 CD PHE D 379 45.643 109.133 67.324 1.00 18.78 ATOM 13935 C PHE D 379 45.157 112.796 65.182 1.00 18.79 ATOM 13936 CB PHE D 379 45.157 112.796 65.182 1.00 18.79 ATOM 13937 CA SER D 380 42.997 109.336 67.324 1.00 18.61 ATOM 13945 CB PHE D 379 45.157 112.796 65.182 1.00 18.79 ATOM 13945 CB PHE D 379 45.157 112.796 65.182 1.00 18.79 ATOM 13950 CB SER D 380 42.420 104.992 70.002 2.30 ATOM 13950 CB SER D 380 42.420 104.993 70.002 2.30 1.00 22.						47.084 114.443 71.089 1.00 20.56
ATOM 13883 N LIE D 376						46.012 112.193 71.261 1.00 20.11
ATOM 13885 CA LILE D 376						45.441 111.611 70.362 1.00 19.98
ATOM 13887 CB LIED 376						46.787 111.582 72.152 1.00 20.02
ATOM 13889 CG ILLE D 376						47.047 110.161 72.141 1.00 19.93
ATOM 13892 CG1 ILE D 376 ATOM 13896 CG2 ILE D 376 ATOM 13896 CG2 ILE D 376 ATOM 13896 CG2 ILE D 376 ATOM 13900 C ILE D 376 ATOM 13900 C ILE D 376 ATOM 13901 O ILE D 376 ATOM 13901 O ILE D 376 ATOM 13902 N ASN D 377 ATOM 13904 CA ASN D 377 ATOM 13906 CE ASN D 377 ATOM 13909 CG ASN D 377 ATOM 13909 CG ASN D 377 ATOM 13910 ODI ASN D 377 ATOM 13910 N ASN D 377 ATOM 13911 NDZ ASN D 377 ATOM 13911 NDZ ASN D 377 ATOM 13911 NDZ ASN D 377 ATOM 13916 N ILE D 378 ATOM 13916 N ILE D 378 ATOM 13916 N ILE D 378 ATOM 13920 CG1 ILE D 378 ATOM 13935 N PHE D 379 ATOM 13936 N ILE D 378 ATOM 13937 CG1 ILE D 378 ATOM 13939 CG2 ILE D 378 ATOM 13930 C ILE D 379 ATOM 13940 C C ILE D 379 ATOM 13940 C C ILE D 379 ATOM 13940 C C ILE D 379 ATOM 13950 C ILE D 379 A						47.960 109.772 73.318 1.00 19.91
ATOM 13896 CG2 LLE D 376						49.370 110.321 73.087 1.00 19.82
ATOM 13901 C ILE D 376				TTE	D 376	
ATOM 13901 O ILE D 376				エアド	D 376	
ATOM 13904 CA ASN D 377 44.806 109.843 72.988 1.00 20.20 ATOM 13906 CB ASN D 377 42.818 109.737 74.438 1.00 20.29 ATOM 13906 CB ASN D 377 42.818 109.737 74.438 1.00 20.29 ATOM 13906 CB ASN D 377 42.818 109.737 74.438 1.00 20.78 ATOM 13910 OD1 ASN D 377 41.464 109.059 74.742 1.00 23.08 ATOM 13911 ND2 ASN D 377 41.464 109.059 74.066 1.00 23.08 ATOM 13911 ND2 ASN D 377 41.420 108.218 75.769 1.00 16.97 ATOM 13914 C ASN D 377 42.690 109.230 71.919 1.00 19.95 ATOM 13916 N ILE D 378 42.738 110.377 71.560 1.00 19.95 ATOM 13916 N ILE D 378 42.738 110.377 71.550 1.00 19.26 ATOM 13918 CA ILE D 378 42.738 110.377 71.250 1.00 18.75 ATOM 13920 CB ILE D 378 42.153 112.060 69.508 1.00 18.75 ATOM 13922 CG ILE D 378 41.342 113.031 70.375 1.00 18.79 ATOM 13923 C ILE D 378 41.781 114.472 70.341 1.00 18.79 ATOM 13923 C ILE D 378 41.781 114.472 70.341 1.00 18.79 ATOM 13933 C ILE D 378 42.382 109.578 68.981 1.00 18.79 ATOM 13933 C ILE D 378 42.382 109.578 68.981 1.00 18.32 ATOM 13933 C ILE D 378 42.382 109.578 68.981 1.00 18.34 ATOM 13934 C ILE D 378 41.519 108.926 68.376 1.00 16.91 ATOM 13935 N PHE D 379 45.643 109.426 68.823 1.00 18.34 ATOM 13937 CA PHE D 379 45.643 109.426 66.391 1.00 18.34 ATOM 13935 C PHE D 379 45.493 110.456 66.539 1.00 17.77 ATOM 13935 C PHE D 379 45.643 109.426 66.391 1.00 18.78 ATOM 13935 C PHE D 379 45.493 110.456 66.539 1.00 17.77 ATOM 13935 C PHE D 379 45.643 109.136 66.255 1.00 17.77 ATOM 13945 CEI PHE D 379 45.643 109.136 66.255 1.00 18.61 ATOM 13955 C PHE D 379 45.643 109.136 66.255 1.00 1.00 15.28 ATOM 13955 C PHE D 379 45.643 109.426 66.397 1.00 16.73 ATOM 13955 C PHE D 379 45.643 109.136 66.255 1.00 1.00 15.28 ATOM 13957 CA SER D 380 41.551 105.140 69.154 1.00 18.89 ATOM 13957 CA SER D 380 41.551 106.546 65.297 1.00 22.33 ATOM 13957 CA SER D 380 41.553 106.556 66.257 1.00 12.33 66.255 1.00 14.86 65.373 1.00 16.73 ATOM 13957 CA SER D 380 41.553 104.555 66.256 1.00 22.89 ATOM 13956 C SER D 380 42.420 104.992 70.402 1.00 22.33 ATOM 13957 CA SER D 380 41.553 104.555 66.526 1.00 22.89 ATOM 13966 N ALA D						
ATOM 13904 CA ASN D 377						
ATOM 13906 CB ASN D 377				ASN	D 3//	
ATOM 13910 CG ASN D 377						
ATOM 13910 ODL ASN D 377						20070
ATOM 13911 ND2 ASN D 377				ASM	D 377	
ATOM 13914 C ASN D 377			ND2	ASN	D 377	
ATOM 13915 O ASN D 377 41.993 108.278 71.560 1.00 20.27 ATOM 13916 N ILE D 378 42.738 110.377 71.250 1.00 19.26 ATOM 13920 CB ILE D 378 42.738 110.579 70.030 1.00 18.75 ATOM 13922 CG1 ILE D 378 42.153 112.060 69.508 1.00 18.77 ATOM 13925 CD1 ILE D 378 41.342 113.031 70.375 1.00 19.26 ATOM 13925 CD1 ILE D 378 41.342 113.031 70.375 1.00 19.09 ATOM 13929 CG2 ILE D 378 41.724 112.187 68.044 1.00 18.79 ATOM 13933 C ILE D 378 42.382 109.578 68.981 1.00 18.32 ATOM 13934 O ILE D 378 42.382 109.578 68.981 1.00 18.32 ATOM 13935 N PHE D 379 43.701 109.422 66.823 1.00 16.91 ATOM 13937 CA PHE D 379 44.297 108.552 67.805 1.00 16.91 ATOM 13939 CB PHE D 379 45.643 109.133 67.324 1.00 18.61 ATOM 13940 CD1 PHE D 379 46.182 111.562 66.910 1.00 17.77 ATOM 13947 CZ PHE D 379 44.623 110.415 66.539 1.00 17.77 ATOM 13947 CZ PHE D 379 44.620 112.731 66.255 1.00 14.16 ATOM 13947 CZ PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13951 CD2 PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13954 CE2 PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13955 C PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13956 C PHE D 379 44.550 706.457 68.237 1.00 19.48 ATOM 13957 CA SER D 380 43.355 106.536 68.773 1.00 20.73 ATOM 13956 C PHE D 382 44.623 110.486 65.473 1.00 20.73 ATOM 13957 CA SER D 380 42.291 105.140 92 70.402 1.00 22.33 ATOM 13956 CA ALA D 381 43.497 102.234 66.268 1.00 22.89 ATOM 13968 CA ALA D 381 43.497 102.234 66.268 1.00 22.89 ATOM 13968 CA ALA D 381 43.197 102.911 66.100 23.06 ATOM 13976 CA ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13980 CB ASP D 382 41.588 99.5570 71.157 1.00 23.553						
ATOM 13916 N ILE D 378						
ATOM 13918 CA ILE D 378		13916				40 700 110 0
ATOM 13920 CB ILE D 378	MOTA					41 000 110 700
ATOM 13922 CG1 ILE D 378	MOTA	13920	CB			40 150 140 050 00 00
ATOM 13925 CD1 ILE D 378	ATOM	13922	CG1			
ATOM 13929 CG2 ILE D 378		13925	CD1	ILE	D 378	44 704 444 177
ATOM 13933 C ILE D 378			CG2	ILE	D 378	
ATOM 13934 O ILE D 378						
ATOM 13935 N PHE D 379						41.519 108.926 68.376 1.00 16.91
ATOM 13937 CA PHE D 379						43.701 109.422 68.823 1.00 18.34
ATOM 13949 CB PHE D 379						44.297 108.552 67.805 1.00 18.78
ATOM 13942 CG PHE D 379						45.643 109.133 67.324 1.00 18.61
ATOM 13945 CE1 PHE D 379						
ATOM 13947 CZ PHE D 379				PUR :	0 3/9	46 000 010 001
ATOM 13949 CE2 PHE D 379 44.465 111.679 64.785 1.00 16.73 ATOM 13951 CD2 PHE D 379 44.623 110.486 65.473 1.00 16.28 ATOM 13953 C PHE D 379 44.444 107.085 68.237 1.00 19.48 ATOM 13954 O PHE D 379 45.507 106.467 68.067 1.00 18.89 ATOM 13955 N SER D 380 43.355 106.536 68.773 1.00 20.73 ATOM 13957 CA SER D 380 43.291 105.140 69.175 1.00 22.12 ATOM 13959 CB SER D 380 42.420 104.992 70.402 1.00 22.33 ATOM 13962 OG SER D 380 42.986 105.676 71.489 1.00 23.06 ATOM 13964 C SER D 380 42.691 104.347 68.029 1.00 23.01 ATOM 13965 O SER D 380 41.533 104.555 67.626 1.00 22.89 ATOM 13966 N ALA D 381 43.486 103.446 67.487 1.00 23.95 ATOM 13968 CA ALA D 381 43.486 103.446 67.487 1.00 23.95 ATOM 13970 CB ALA D 381 43.197 102.911 66.170 1.00 24.86 ATOM 13974 C ALA D 381 44.492 102.384 65.538 1.00 24.88 ATOM 13975 O ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13976 N ASP D 382 41.087 100.138 67.785 1.00 25.73 ATOM 13980 CB ASP D 382 41.087 100.138 67.785 1.00 25.77 ATOM 13983 CG ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13984 OD1 ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13985 OD2 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13986 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						
ATOM 13951 CD2 PHE D 379						
ATOM 13953 C PHE D 379			CD2	PHE	379 D 379	20073
ATOM 13954 O PHE D 379 ATOM 13955 N SER D 380 ATOM 13957 CA SER D 380 ATOM 13959 CB SER D 380 ATOM 13962 OG SER D 380 ATOM 13964 C SER D 380 ATOM 13965 O SER D 380 ATOM 13965 O SER D 380 ATOM 13966 N ALA D 381 ATOM 13968 CA ALA D 381 ATOM 13970 CB ALA D 381 ATOM 13974 C ALA D 381 ATOM 13975 O ALA D 381 ATOM 13975 O ALA D 381 ATOM 13976 N ASP D 382 ATOM 13978 CA ASP D 382 ATOM 13983 CG ASP D 382 ATOM 13984 OD1 ASP D 382 ATOM 13985 OD2 ASP D 382						44 444 445
ATOM 13955 N SER D 380 43.355 106.536 68.773 1.00 20.73 ATOM 13957 CA SER D 380 43.291 105.140 69.175 1.00 22.12 ATOM 13959 CB SER D 380 42.420 104.992 70.402 1.00 22.33 ATOM 13962 OG SER D 380 42.986 105.676 71.489 1.00 23.06 ATOM 13964 C SER D 380 42.691 104.347 68.029 1.00 23.01 ATOM 13965 O SER D 380 41.533 104.555 67.626 1.00 22.89 ATOM 13966 N ALA D 381 43.486 103.446 67.487 1.00 23.95 ATOM 13968 CA ALA D 381 43.197 102.911 66.170 1.00 24.86 ATOM 13970 CB ALA D 381 44.492 102.384 65.538 1.00 24.88 ATOM 13974 C ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13975 O ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13980 CB ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13984 OD1 ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						1 2 2 2 3 3 3 0
ATOM 13957 CA SER D 380 43.291 105.140 69.175 1.00 22.12 ATOM 13959 CB SER D 380 42.420 104.992 70.402 1.00 22.33 ATOM 13962 OG SER D 380 42.986 105.676 71.489 1.00 23.06 ATOM 13964 C SER D 380 42.691 104.347 68.029 1.00 23.01 ATOM 13965 O SER D 380 41.533 104.555 67.626 1.00 22.89 ATOM 13966 N ALA D 381 43.486 103.446 67.487 1.00 23.95 ATOM 13968 CA ALA D 381 43.197 102.911 66.170 1.00 24.86 ATOM 13970 CB ALA D 381 44.492 102.384 65.538 1.00 24.88 ATOM 13974 C ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13975 O ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13978 CA ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13980 CB ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13984 OD1 ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13985 OD2 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53	ATOM	13955	N			
ATOM 13959 CB SER D 380	ATOM	13957	CA			200 20175
ATOM 13962 OG SER D 380			CB			
ATOM 13964 C SER D 380			OG			
ATOM 13965 O SER D 380 41.533 104.555 67.626 1.00 22.89 ATOM 13966 N ALA D 381 43.486 103.446 67.487 1.00 23.95 ATOM 13968 CA ALA D 381 43.197 102.911 66.170 1.00 24.86 ATOM 13970 CB ALA D 381 44.492 102.384 65.538 1.00 24.88 ATOM 13974 C ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13975 O ALA D 381 41.365 101.554 65.296 1.00 26.24 ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13978 CA ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						42.691 104.347 68.029 1.00 23.01
ATOM 13966 N ALA D 381 43.486 103.446 67.487 1.00 23.95 ATOM 13968 CA ALA D 381 43.197 102.911 66.170 1.00 24.86 ATOM 13970 CB ALA D 381 44.492 102.384 65.538 1.00 24.88 ATOM 13974 C ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13975 O ALA D 381 41.365 101.554 65.296 1.00 26.24 ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13978 CA ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						41.533 104.555 67.626 1.00 22.89
ATOM 13968 CA ALA D 381 43.197 102.911 66.170 1.00 24.86 ATOM 13970 CB ALA D 381 44.492 102.384 65.538 1.00 24.88 ATOM 13974 C ALA D 381 42.115 101.817 66.268 1.00 25.60 ATOM 13975 O ALA D 381 41.365 101.554 65.296 1.00 26.24 ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13978 CA ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						43.486 103.446 67.487 1.00 23.95
ATOM 13970 CB ALA D 381 44.492 102.384 65.538 1.00 24.88 42.115 101.817 66.268 1.00 25.60 ATOM 13975 O ALA D 381 41.365 101.554 65.296 1.00 26.24 ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13980 CB ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13983 CG ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53				ALA I	381	43.197 102.911 66.170 1.00 24.86
ATOM 13975 O ALA D 381 41.365 101.554 65.296 1.00 26.24 ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13978 CA ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53			СВ	ALA I	381	44.492 102.384 65.538 1.00 24.88
ATOM 13976 N ASP D 382 42.017 101.233 67.467 1.00 25.73 ATOM 13978 CA ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						
ATOM 13978 CA ASP D 382 41.087 100.138 67.785 1.00 25.68 ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						41.365 101.554 65.296 1.00 26.24
ATOM 13980 CB ASP D 382 41.688 99.351 68.929 1.00 25.77 ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						
ATOM 13983 CG ASP D 382 41.538 100.071 70.217 1.00 26.58 ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						1.00
ATOM 13984 OD1 ASP D 382 41.974 101.227 70.325 1.00 24.92 ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53						14 700 3011
ATOM 13985 OD2 ASP D 382 40.909 99.570 71.157 1.00 33.53				ASP F	382	20.50
ATOM 13006 C 707 7 33.53						
25.00 200.003 00.217 1.00 25.05						2.00 35.33
						7.00 23.05

ATOM ATOM ATOM	13987 13988 13990 13992	N CA	ASP ARG ARG ARG	D D	382 383 383 383		37.887	99.837 101.749 102.194 103.687	68.939 67.802 68.138 67.917	1.00 25.29 1.00 24.36 1.00 23.67 1.00 23.35		O N C C
MOTA	13995	CG	ARG		383	•		104.525	68.764	1.00 22.04		: c
ATOM	13998	CD	ARG					104.330	70.242	1.00 21.22		C
MOTA	14001	NE	ARG					105.473	71.003	1.00 21.38		N
MOTA	14003	CZ	ARG					105.602	72.320	1.00 20.71		C
ATOM	14004		ARG					104.654	73.044	1.00 18.63		N.
ATOM	14007		ARG ARG					106.704 101.493	72.902	1.00 21.51		N
ATOM ATOM	14010 14011	C 0	ARG					101.493	67.211 66.107	1.00 23.94 1.00 23.91		. C
ATOM	14012	N	PRO					101.137	67.614	1.00 23.91		O
ATOM	14013	CA	PRO					100.764	66.727	1.00 24.50		C
ATOM	14015	СВ	PRO					100.906	67.508	1.00 24.50		· C
ATOM	14018	CG	PRO					101.100	68.909	1.00 24.66		č
MOTA	14021	CD	PRO				35.114	101.802	68.887	1.00 24.73		C
MOTA	14024	С	PRO					101.576	65.443	1.00 24.46		C
ATOM	14025	0	PRO					102.789	65.477	1.00 24.80		0
ATOM	14026	N	ASN					100.895	64.336	1.00 24.41		N
MOTA	14028	CA	ASN					101.519	63.048	1.00 24.06	•	C
ATOM TATOM	14030 14033	CB CG	ASN ASN					102.335 101.442	63.209	1.00 24.13 1.00 24.57		C
ATOM	14033		ASN					101.442	63.519 62.811	1.00 24.57		C
ATOM	14035		ASN					101.753	64.583	1.00 24.61		N
ATOM	14038	С	ASN					102.312	62.327	1.00 23.13		C N
MOTA	14039	0			385			103.058	61.413	1.00 23.40		Ō
ATOM	14040	N			386			102.115	62.711	1.00 22.23		N
ATOM	14042	CA			386			102.819	62.085	1.00 21.64		С
ATOM	14044	CB			386			102.868	63.009	1.00 21.89		С
MOTA	14046		VAL					103.489	62.308	1.00 23.24		C
ATOM ATOM	14050				386			103.653	64.260	1.00 22.08		, C
ATOM	14054 14055	С 0			386 386			102.117 100.962	60.822 60.871	1.00 21.29		C
ATOM	14056	N			387			100.302	59.706	1.00 20.91 1.00 21.17		O N
ATOM	14058	CA			387			102.337	58.382	1.00 21.17		C
ATOM	14060	CB			387			103.298	57.316	1.00 21.60		č
MOTA	14063	CG	GLN	D	387			103.474	57.271	1.00 23.84		C
ATOM	14066	CD			387			102.152	57.315	1.00 26.84		С
MOTA	14067		GLN					101.587	58.402	1.00 29.70		0
MOTA	14068	NE2						101.681	56.151	1.00 26.87		N
ATOM ATOM	14071 14072	C			387 387			102.150 101.134	58.138	1.00 20.46		C
ATOM	14072	N			388			101.134	57.551 58.578	1.00 20.17 1.00 19.57		O N
MOTA	14075	CA			388			103.122	58.374	1.00 19.37		C
ATOM	14077	CB			388		42.469	104.335	57.573	1.00 19.45		Ċ
MOTA	14080	CG			388			104.524	56.323	1.00 21.28		č
ATOM	14083	CD			388			105.317	55.207	1.00 22.49		Ċ
ATOM	14084		GLU					106.564	55.252	1.00 22.05		0
MOTA	14085	OE2						104.695	54.281	1.00 23.94		0
ATOM	14086	C			388			103.030	59.684	1.00 18.12		C
ATOM ATOM	14087 14088	O N			388 389			103.984 101.896	60.101	1.00 18.05		0
ATOM	14089	CA			389			101.896	60.357 61.649	1.00 17.29 1.00 16.81		N
MOTA	14091	CB			389			100.416	62.141	1.00 10.81		C
MOTA	14094	CG			389		42.733		60.902	1.00 17.03		Č
ATOM	14097	CD			389			100.640	59.984	1.00 17.25		. C
MOTA	14100	С	PRO	D	389			102.000	61.470	1.00 16.76		č
ATOM	14101	0			389	•		102.671	62.276	1.00 17.36	;	. 0
	. 14102	N			390			101.430	60.435	1.00 16.78		N
ATOM	14104	CA	GLY	Ŋ	390		46.900	101.702	60.098	1.00 16.85)	. C

MOTA	14107	С	GLY I	3	390	4	17.293	103.169	60.158	1.00	17.28		C
MOTA	14108	0	GLY I	o 3	390	4	18.261	103.524	60.809	1.00	17.15		0
MOTA	14109	N	ARG I	o :	391	4	16.527	104.017	59.489	1.00	18.14		N
ATOM	14111	CA	ARG I	D :	391	4	16.796	105.440	59.439	1.00	19.06		С
MOTA	14113	CB	ARG I					106.150	58.473	1.00	19.79		С
ATOM	14116	CG	ARG I					105.856	57.027		24.81		С
ATOM	14119	CD	ARG					106.479	55.937		31.08		C
		NE	ARG 1					107.848	56.239		35.63		N
MOTA	14122							108.922	56.164		39.19		c
ATOM	14124	CZ	ARG					108.832	55.783		41.56		N
MOTA	14125		ARG										N
MOTA	14128		ARG					110.100	56.481		39.96		
MOTA	14131	С	ARG					106.037	60.774		18.88		С
ATOM	14132	0	ARG					106.881	.61.144		18.53		0
MOTA	14133	N	VAL					105.609	61.511		19.28		N
MOTA	14135	CA	VAL					106.198	62.827		19.65		C
MOTA	14137	CB	VAL	D	392			105.775	63.400	1.00	19.47		С
MOTA	14139	CGÍ	VAL	D	392		43.740	106.387	64.752		18.81		C
ATOM	14143		VAL				42.846	106.211	62.462	1.00	19.77		С
ATOM	14147	С	VAL				46.523	105.888	63.790	1.00	20.35		С
ATOM	14148	ō	VAL					106.782	64.482	1.00	20.30		0
MOTA	14149	N	GLU					104.639	63.776		21.00		N
ATOM	14151	CA	GLU					104.174	64.638		21.57		С
			GLU					102.681			22.36		Č
ATOM	14153	CB	GLU					102.065	65.247		25.56		Č
ATOM	14156	CG							65.063		29.06		C
ATOM	14159	CD	GLU					100.549					Ö
MOTA	14160		GLU				49.371		66.065		31.45		
MOTA	14161		GLU					100.055	63.927		32.11		0
MOTA	14162	С	GLU					104.933	64.350		21.24		C
MOTA	14163	0	GLU					105.144	65.266		20.96		0
MOTA	14164	N	ALA					105.371	63.089		21.14		N
ATOM	14166	CA	ALA					106.095	62.661		20.32		С
MOTA	14168	CB	ALA	D	394			106.078	61.201		19.69		С
MOTA	14172	С	ALA	D	394			107.510	63.153		20.38		С
ATOM	14173	0	ALA	D	394		51.729	108.057	63.510	1.00	20.59		0
ATOM	14174	N	LEU	D	395		49.505	108.098	63.196	1.00	20.47		N
ATOM	14176	CA	LEU				49.336	109.420	63.790	1.00	20.77		С
ATOM	14178	СВ	LEU				47.928	109.938	63.560	1.00	20.81		С
ATOM	14181	CG	LEU					110.100	62.087		22.26		C
ATOM	14183		LEU					110.293	61.869		23.63		C
MOTA	14187		LEU					111.258	61.546		24.74		С
MOTA	14191	C	LEU					109.397	65.302		20.59		Ċ
ATOM	14192	ŏ	LEU					110.375	65.858		20.26		Ŏ
ATOM	14193	N	GLN					108.293	65.960		19.73		N
ATOM	14195	CA	GLN					108.260	67.403		20.05		c
	14197		GLN					107.012			20.37		č
MOTA		CB							69.537		20.06		č
ATOM	14200	CG	GLN					107.124					C
ATOM	14203	CD	GLN					105.861	70.193		20.29		
MOTA	14204		GLN					105.815	70.696		20.80		0
MOTA	14205		GLN					104.857	70.247		19.12		N
MOTA	14208	С			396			108.305	67.826		19.83		C
MOTA	14209	0			396			108.806	68.894		19.67		0
MOTA	14210	N	GLN	D	397			107.784	66.981	1.00	19.67	•	N
MOTA	14212	CA	GLN	D	397		53.069	107.597	67.358	1.00	19.66		C
ATOM	14214	CB			397			106.839	66.275	1.00	19.92		C
ATOM	14217	CG			397			106.447	66.705	1.00	22.13		C
ATOM	14220	CD			397			105.832	65.573		24.57		C
ATOM	14221		GLN					5 104.737	65.095		27.99		ŏ
ATOM	14222		GLN					106.521			22.32		N
ATOM	14225	C			397	• •		108.884	67.776		18.93		Ċ
	14225	Ö			397			108.948	68.882		18.95		ŏ
MOTA								l 109.911			18.52		N
MOTA	14227	N	PRO		398				00.540	1.00	10.52		TA.

ATOM ATOM	14228 14230		PRO I				54.614	111.125 112.146	67.343 66.236	1.00 18.04 1.00 17.79	
ATOM	14233		PRO				53.418		65.290	1.00 18.23	
ATOM	14236		PRO					110.017	65.574	1.00 18.57	
ATOM	14239		PRO					111.678	68.711	1.00 17.72	
ATOM	14240		PRO .					112.182	69.418	1.00 17.84	
MOTA	14241	N	TYR					111.601	69.065	1.00 17.81	
ATOM	14243	CA	TYR					112.085	70.360	1.00 17.76	· C
ATOM	14245	CB	TYR					112.210	70.347	1.00 17.88	. С
MOTA	14248	CG	TYR				50.423	113.203	69.330	1.00 18.22	. C
MOTA	14249		TYR					112.788	68.120	1.00 18.17	
MOTA	14251	CE1	TYR					113.688	67.186	1.00 17.27	Ç
MOTA	14253	CZ	TYR					115.031		1.00 18.04	C
MOTA	14254	OH	TYR					115.953	66.493	1.00 17.86	0
MOTA	14256	CE2	TYR					115.469	68.641	1.00 17.94	L. C
MOTA	14258		TYR					114.560	69.566	1.00 18.61	
MOTA	14260	C	TYR					111.231	71.536	1.00 17.45	
ATOM	14261	0	TYR					111.781	72.563	1.00 17.11	L U
	14262	N	VAL					109.903 108.999	71.383 72.372	1.00 17.74 1.00 18.33	i N
ATOM	14264	CA	VAL VAL				53.475	107.504	71.998	1.00 18.16	5. C
ATOM ATOM	14266 14268	CB CC1	VAL					106.663	73.066	1.00 18.08	3 6
ATOM	14272		VAL					107.048	71.791	1.00 18.79	
ATOM	14272	C	VAL			•		109.321	72.540	1.00 19.34	i c
ATOM	14277	ŏ			400			109.541	73.667	1.00 20.53	3 0
ATOM	14278	N	GLU					109.327	71.456	1.00 19.5	1 N
ATOM	14280	CA	GLU					109.730	71.513	1.00 20.09	5 C
MOTA	14282	CB	GLU	D	401			109.846	70.103	1.00 20.73	C C
ATOM	14285	CG	GLU	D	401		58.174	108.538	69.449	1.00 23.83	3 C
ATOM	14288	CD	GLU	D	401			108.676	67.962	1.00 27.8	
MOTA	14289	OE1						107.761	67.168	1.00 29.3	
ATOM	14290	OE2			401			109.693	67.572	1.00 30.7	
ATOM	14291	С			401			111.067	72.235	1.00 19.70	
ATOM	14292	0			401			111.258	72.944	1.00 19.20	
MOTA	14293	N			402			111.996	72.026	1.00 19.60	
MOTA	14295	CA			402			113.336 114.281	72.554 71.874	1.00 19.83 1.00 19.93	
MOTA MOTA	14297 14301	CB C			402 402			113.321	74.046	1.00 19.9	
ATOM	14301	Ö			402			114.027	74.790	1.00 19.6	
ATOM	14302	N			403			112.516	74.486	1.00 20.3	
ATOM	14305	CA			403			112.341	75.932	1.00 20.2	i . c
ATOM	14307	CB			403			111.622	76.156	1.00 19.8	
ATOM	14310	· CG			403			111.494	77.583	1.00 19.7	8 C
ATOM	14312	CD1	LEU					112.824	78.312	1.00 19.3	7 C
ATOM	14316	CD2	LEU				51.928	110.778	77.535		
MOTA	14320	С	LEU	D	403			111.598	76.628	1.00 20.4	
MOTA	14321	0			403			111.944	77.744	1.00 19.7	
ATOM	14322	N			404			110.599	75.940	1.00 20.8	
MOTA	14324	CA			404			109.874	76.446	1.00 21.5	
ATOM	14326	CB			404			108.735	75.505	1.00 22.0	0 C
ATOM	14329	CG			404			107.976		1.00 23.8	
MOTA	14331		LEU					107.648 106.722	77.336 75.012	1.00 24.7 1.00 25.5	
MOTA MOTA	14335 14339	CD2	LEU		404			110.849	76.629	1.00 23.3	
ATOM	14340	Ö			404			110.981	77.735	1.00 21.2	
MOTA	14341	'n			405			111.540	75.562	1.00 21.0	
ATOM	14343	CA			405			112.515	75.675	1.00 20.8	
ATOM	14345	CB			405			113.286	74.361	1.00 20.9	
ATOM	14348	OG			405		60.975	112.427	73.240	1.00 21.8	1 0
ATOM	14350	С			405		60.244	113.517	76.784	1.00 20.1	.3 C
MOTA	14351	0	SER	D	405		61.091	113.797	77.621	1.00 19.9	4 0
	•					•					

	b												
	ATOM	14352	N	TYR	ח	406	59 011	114.024	76.798	1 00	19.43		
	ATOM	14354	CA			406		115.094	77.702		18.84		N C
	MOTA	14356	CB			406		115.627	77.432		18.39		c
	ATOM	14359	CG			406		116.741	78.386		17.05		Ċ
	MOTA	14360	CD1			406		118.076	78.109		15.16		С
	MOTA	14362	CE1			406		119.082	78.995		14.91		C
	ATOM ATOM	14364 14365	CZ OH			406		118.754	80.188		16.13		C
	ATOM	14363	CE2			406 406		119.695 117.447	81.104 80.482		14.27		0
	ATOM	14369	CD2			406		116.453	79.584		16.65 16.33		C
	MOTA	14371	C			406		114.666	79.142		19.41		C
	MOTA	14372	0			406		115.485	79.976		19.36		õ
	MOTA	14373	N			407		113.396	79.444		20.52		N
	MOTA	14375	CA			407		112.931	80.835		21.10		C
	ATOM	14377	CB			407		111.698	81.056		20.94		C
	MOTA	14379	OG1			407		110.613	80.169		20.10		0
	ATOM ATOM	14381 14385	CG2 C			407 407		112.054	80.756		19.23		C
	ATOM	14386	Ö			407		112.630 112.953	81.289 82.408		22.45 22.09		C
	ATOM	14387	Ŋ			408		112.039	80.403		24.36		N O
	ATOM	14389	CA			408		111.730	80.698		26.24		C
	MOTA	14391	CB	ARG	D	408		111.078	79.486		26.81		č
	MOTA	14394	CG			408		111.225	79.434		30.29		Č
	ATOM	14397	CD			408		110.223	78.489		34.24		C
	ATOM	14400	NE			408		108.944	78.269		37.86		N
	ATOM ATOM	14402 14403	CZ NH1	ARG		408		108.681 109.603	77.252		38.72		C
	ATOM	14406	NH2	ARG				109.603	76.318 77.169		39.53 37.88		N
	ATOM	14409	C			408		112.997	81.095		27.27		N C
	MOTA	14410	Ö			408		112.956	81.959		27.78		0
	ATOM	14411	N			409	62.431	114.115	80.464		28.53		N
	ATOM	14413	CA			409		115.424	80.630		29.10		C
	ATOM	14415	CB			409		116.182	79.281		29.21		С
	ATOM ATOM	14417 14420		ILE				115.730	78.431		29.57		C
	ATOM	14424		ILE				116.098 117.705	76.959 79.493		29.86 29.59		C
	ATOM	14428	C			409		116.276	81.765		29.69		C
	ATOM	14429	0			409		116.746	82.592		29.72		0
	ATOM	14430	N			410	61.178	116.487	81.800		30.89		N
	ATOM	14432	CA			410		117.179	82.918	1.00	32.02		C
	ATOM	14434	CB			410		117.161	82.774		32.44		С
	ATOM ATOM	14437	CG			410		117.327	84.113	1.00	32.79		C
	ATOM	14440 14443	CD CE	LYS		410		116.581 117.260	84.104 85.007		31.65		C
	ATOM	14446	NZ	LYS				117.221	86.431		30.17 28.02		C
	ATOM	14450	C			410		116.538	84.243	1.00	33.11		N C
	MOTA	14451	0			410		117.206	85.148		33.27		Ö
	MOTA	14452	N			411		115.245	84.363		34.55		N
	ATOM	14454	CA	ARG				114.520	85.639	1.00	35.80		С
	MOTA	14456	CB			411		114.044	86.094		36.44		С
	ATOM ATOM	14459 14462	CG CD	ARG		411		115.071	86.893		39.72		C
	ATOM	14465	NE	ARG				114.617 114.515	88.323		44.12	•	C
	ATOM	14467	CZ	ARG				114.009	88.483 89.559		47.54 50.05		N C
	ATOM	14468		ARG				113.552	90.609		50.31		N
	ATOM	14471		ARG			54.663	113.974	89.588		50.69		N
	MOTA	14474	C			411	61.636	113.306	85.530	1.00	35.61		Ċ
	ATOM	14475	0	ARG				112.168	85.573	1.00	35.68		ō
	ATOM	14476	N			412		113.518	85.419		35.51		N
	ATOM ATOM	14477 14479	CA CB	PRO		412		112.390	85.140		35.54		С
_	431 OF	T4413	<u> </u>	FKU		417	05.249	113.049	85.043	1.00	35.48		С

MOTA	14482	CG	PRO	D 412	65.101 114.467 85.498 1.00 35.29	
MOTA	14485	CD	PRO		63.656 114.800 85.575 1.00 35.29	
ATOM	14488	С	PRO		63.811 111.271 86.211 1.00 35.66	
ATOM	14489	0		D 412	64.209 110.132 85.929 1.00 35.74	
ATOM ATOM	14490 14492	N	GLN		63.280 111.594 87.394 1.00 35.64	
ATOM	14492	CA CB		D 413 D 413	63.360 110.739 88.585 1.00 35.41	
ATOM	14497	CG		D 413	63.624 111.604 89.827 1.00 35.43 64.420 112.883 89.582 1.00 35.38	
ATOM	14500	CD		D 413	64.420 112.883 89.582 1.00 35.38 65.705 112.904 90.352 1.00 35.03	
ATOM	14501	OE1		D 413	65.725 113.297 91.515 1.00 34.71	
ATOM	14502	NE2	GLN	D 413	66.788 112.476 89.712 1.00 35.14	•
ATOM	14505	C		D 413	62.107 109.877 88.846 1.00 35.14	
ATOM	14506	0		D 413	62.034 109.185 89.868 1.00 35.15	
ATOM ATOM	14507 14509	N CA		D 414 D 414	61.124 109.937 87.952 1.00 34.61	
ATOM	14511	CB		D 414	59.931 109.106 88.057 1.00 34.34 58.702 109.985 88.325 1.00 34.59	
ATOM	14514	CG		D 414	58.702 109.985 88.325 1.00 34.59 57.478 109.181 88.766 1.00 35.67	
ATOM	14515		ASP	D 414	57.651 108.168 89.474 1.00 35.66	•
ATOM	14516	OD2	ASP	D 414	56.296 109.494 88.467 1.00 37.51	
ATOM	14517	C		D 414	59.774 108.314 86.762 1.00 33.63	
ATOM ATOM	14518	0		D 414	59.101 108.754 85.850 1.00 33.48	
ATOM	14519 14521	N CA		D 415 D 415	60.427 107.159 86.676 1.00 33.06	
ATOM	14523	CB		D 415	60.407 106.343 85.453 1.00 32.58 61.481 105.242 85.500 1.00 32.89	
ATOM	14526	ĊĠ		D 415	61.481 105.242 85.500 1.00 32.89 62.742 105.530 84.689 1.00 33.42	
MOTA	14529	CD	GLN I	D 415	63.769 104.401 84.790 1.00 34.07	
ATOM	14530	OE1		D 415	63.678 103.410 84.069 1.00 34.50	
ATOM	14531	NE2		D 415	64.742 104.551 85.685 1.00 34.30	
ATOM ATOM	14534 14535	С		D 415	59.034 105.706 85.198 1.00 31.88	
ATOM	14535	O N		0 415 0 416	58.685 105.460 84.044 1.00 31.77	
ATOM	14538	CA		0 416	58.268 105.459 86.268 1.00 30.95 56.920 104.880 86.177 1.00 30.43	
MOTA	14540	CB		416	56.920 104.880 86.177 1.00 30.43 56.521 104.222 87.489 1.00 30.43	
ATOM	14543	CG	LEU I	416	57.531 103.266 88.119 1.00 31.29	
ATOM	14545	CD1			57.081 102.858 89.539 1.00 31.25	
ATOM ATOM	14549	CD2			57.737 102.053 87.210 1.00 31.92	
ATOM	14553 14554	C	LEU I		55.839 105.898 85.858 1.00 29.89	
MOTA	14555	N	ARG		54.700 105.549 85.668 1.00 30.26 56.192 107.166 85.845 1.00 29.36	
MOTA	14557	CA	ARG I		56.192 107.166 85.845 1.00 29.36 55.268 108.235 85.513 1.00 28.75	
MOTA	14559	CB	ARG I	417	56.056 109.542 85.476 1.00 29.25	
MOTA	14562	CG	ARG I		55.308 110.758 85.888 1.00 31.25	
ATOM ATOM	14565	CD	ARG I		55.780 112.009 85.138 1.00 33.19	
ATOM	14568 14570	NE CZ	ARG I		55.266 113.199 85.785 1.00 34.76	
ATOM	14571		ARG D		53.993 113.513 85.807 1.00 37.31 53.109 112.745 85.184 1.00 39.76	
ATOM	14574		ARG D		53.109 112.745 85.184 1.00 39.76 53.588 114.610 86.426 1.00 38.44	
ATOM	14577	C	ARG I	417	54.618 107.990 84.148 1.00 27.48	
MOTA	14578	0	ARG D	417	53.385 107.942 84.021 1.00 27.07	
MOTA	14579	N	PHE I		55.457 107.834 83.127 1.00 25.85	
MOTA MOTA	14581 14583	CA CB	PHE D		54.958 107.667 81.766 1.00 24.54	
ATOM	14586	CG	PHE C		56.122 107.534 80.769 1.00 24.61	
ATOM	14587		PHE D	418	55.696 107.188	
MOTA	14589	CE1	PHE D	418	54.917 108.078 78.641 1.00 22.26 54.518 107.786 77.357 1.00 22.16	
MOTA	14591	CZ	PHE D	418	54.891 106.587 76.783 1.00 24.31	
ATOM	14593	CE2	PHE D	418	55.679 105.676 77.526 1.00 25.48	
ATOM	14595		PHE D		56.076 105.989 78.810 1.00 23.20	•
ATOM ATOM	14597 14598	0	PHE D		53.974 106.500 81.655 1.00 23.42	
ATOM	14599	И	PHE D		52.875 106.688 81.148 1.00 22.44	
			- 1.0 D	473	54.361 105.298 82.096 1.00 22.50	

MOTA	14600	CA	PRO	D	419	53.443	3 104.152	82.092	1 00 21 00	
ATOM	14602	CB			419		102.995	82.532	1.00 21.99	С
ATOM	14605	CG			419		103.565	83.062	1.00 21.81	C
ATOM	14608	CD			419	55.711	104.889	82.483	1.00 22.24	C
ATOM	14611	С			419	52 198	104.274	82.958	1.00 22.02	C
ATOM	14612	Ō			419	51 16/	103.814		1.00 21.58	С
ATOM	14613	N			420	52 263	103.814	82.550	1.00 20.83	0
ATOM	14615	CA			420	51 04/	104.306	84.102	1.00 21.99	N
ATOM	14617	CB			420		105.174	84.843	1.00 23.26	C
ATOM	14620	CG			420	51.543	103.833	86.160	1.00 23.88	C
ATOM	14623	CD			420	51.070	104.581	87.251	1.00 26.16	C
ATOM	14626	NE			420		105.155	88.622	1.00 29.60	C
MOTA	14628	CZ			420	54 070	105.133	89.403	1.00 32.35	N
ATOM	14629		ARG	D	420	54 197	107.158	.89.662 89.217	1.00 35.11	C
ATOM	14632	NH2	ARG	D	420		107.138	90.398	1.00 35.49	N
MOTA	14635	C			420	50.037	106.008	84.047	1.00 36.26	N
ATOM	14636	0			420		105.857	84.213	1.00 23.47	Ğ
MOTA	14637	N			421		106.904	83.205	1.00 23.23	0
MOTA	14639	CA			421		107.759	82.417	1.00 23.89	. N
ATOM	14641	CB			421		108.942	81.815	1.00 24.26	С
MOTA	14644	CG			421		109.808	82.828	1.00 24.93	C
ATOM	14647	SD			421	52.122	111.087	82.001	1.00 26.72	C
ATOM	14648	CE			421	50.840	111.852	81.119	1.00 29.13	S
ATOM	14652	С	MET				106.984	81.306	1.00 31.24	C
ATOM	14653	0			421		107.178	81.053	1.00 23.71 1.00 23.34	C
MOTA	14654	N	LEU				106.117	80.636	1.00 23.83	0
ATOM	14656	CA			422	49.211	105.221	79.611	1.00 23.76	И
ATOM	14658	CB	LEU			50.283	104.347	78.963	1.00 23.76	C
MOTA	14661	CG	LEU	D	422		105.058	78.132	1.00 24.63	C
ATOM	14663	CD1	LEU	D	422	52.224	104.051	77.470	1.00 24.63	C
MOTA	14667	CD2	LEU	D	422	50.771	105.927	77.085	1.00 25.19	C
MOTA	14671	С	LEU			48.141	104.335	80.217	1.00 23.19	C
ATOM	14672	0	LEU	D	422	47.150	104.031	79.586	1.00 23.44	C
ATOM	14673	N	MET	D	423	48.326	103.952	81.464	1.00 23.45	0
MOTA	14675	CA	MET	D	423		103.037	82.103	1.00 23.89	N
ATOM	14677	CB	MET			48.065	102.407	83.324	1.00 24.92	C
MOTA	14680	CG	MET			48.117	100.894	83.262	1.00 29.02	C
ATOM	14683	SD	MET	D	423	49.756	100.266	82.996	1.00 36.10	s
ATOM	14684	CE	MET			50.270	100.108	84.644	1.00 35.85	C
ATOM	14688	С	MET			46.125	103.730	82.488	1.00 22.97	c
ATOM	14689	0	MET			45.111	103.097	82.699	1.00 22.90	Ö
ATOM	14690	N	LYS			46.131	105.042	82.569	1.00 22.20	N
ATOM	14692	CA	LYS			44.872	105.722	82.782	1.00 21.40	C
ATOM	14694	CB	LYS			45.105	107.150	83.278	1.00 21.57	č
ATOM	14697		LYS			45.961	107.252	84.560	1.00 21.85	Č
ATOM	14700		LYS			45.176	106.906	85.803	1.00 23.55	č
ATOM	14703	CE	LYS	D	424	46.086	106.499	86.958	1.00 26.09	č
ATOM	14706		LYS			46.502	105.039	86.931	1.00 25.70	Ŋ
ATOM	14710		LYS			44.026	105.664	81.485	1.00 20.77	Č
ATOM	14711		LYS			42.799	105.745	81.557	1.00 20.70	ŏ
ATOM	14712	N	LEU	D	425	44.655	105.508	80.311	1.00 19.71	N
ATOM ATOM	14714	CA	LEU	D	425	43.888	105.269	79.056	1.00 19.37	č
ATOM	14716		LEU			44.767	105.258	77.786	1.00 19.22	č
ATOM	14719	CG CD1	LEU	ח	425	45.631	106.510	77.569	1.00 19.46	č
ATOM	14721 14725	CDI	LEU	ח	425	46.741	106.209	76.606	1.00 20.06	č
ATOM	14725		LEU			44.793	107.672	77.105	1.00 18.98	č
ATOM	14729		LEU			43.117	103.956	79.138	1.00 18.66	č
ATOM	14730		LEU			42.015	103.834	78.597	1.00 18.91	ŏ
ATOM	14733	N CA	VAL	ח	426	43.704	102.982	79.828	1.00 17.67	N
	-14735	-CA GB	VAL_	ח	426 426	43.076	101.685	80.040	1.00 16.70	č
- 12 OU	T-1-1-1-1-1-1	-GD	-v-1-3-1-1	<u></u>	420_	44.030	100.736	80.747	1.00 16.59	Ċ
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ATOM ATOM	14737 14741	CG: CG:	L VAL	D 426		43.374	99.410 100.574	80.951	1.00 16.22	
ATOM	14745	.C		0 426			100.574	79.950	1.00 16.64	
ATOM	14746	0		2 426			101.872	80.897 80.524	1.00 16.09	
ATOM	14747	N		2 427			102.505	82.044	1.00 14.69	
ATOM	14749	CA		2 427			102.904	82.897	1.00 15.87	
ATOM	14751	CB		427			103.777	84.032	1.00 16.06 1.00 15.33	
ATOM	14754	OG	SER I	427			102.987	84.849	1.00 15.33	
MOTA	14756	C		427			103.624	82.127	1.00 16.35	
ATOM	14757	0		427	•		103.373	82.353	1.00 15.56	
MOTA	14758	N		428			104.493	81.210	1.00 17.44	
ATOM		CA	LEU I			39.234	105.305	80.471	1.00 18.87	
ATOM	14762	СВ	LEU I				106.401	79.629	1.00 19.18	
ATOM	14765	CG	LEU I	2 428			107.614	80.448	1.00 19.96	
ATOM ATOM	14767	CDI	L LEU I	428			108.412	79.734	1.00 21.00	
ATOM	14771 14775	CD2	LEU I			39.153	108.468	80.740	1.00 21.25	
ATOM	14776	0	LEU I	128		38.334	104.440		1.00 19.28	
ATOM	14777) 428) 429 ·		37.184	104.791	79.387	1.00 19.13	
ATOM	14779	CA	ARG I			38.846	103.318 102.374		1.00 19.93	
ATOM	14781	СВ	ARG I	129		38 795	102.374	78.371	1.00 20.40	
MOTA	14784	CG	ARG I			30.753	101.180	77.848 76.746	1.00 20.56	
ATOM	14787	CD	ARG I			39.084	102.241	75.590	1.00 20.68	
MOTA	14790	NE	ARG I	429		40.030	102.241	74.663	1.00 22.12 1.00 23.03	
ATOM	14792	CZ	ARG I	429		40.429	102.299	73.527	1.00 23.03	
ATOM	14793	NH1	ARG I	429		39.960	101.113	73.155	1.00 23.00	
ATOM	14796	NH2	ARG I			41.294	102.948	72.758	1.00 22.24	
ATOM	14799	С	ARG I			36.876	101.892	79.269	1.00 20.37	
ATOM	14800	0	ARG D			35.725	102.054	78.975	1.00 20.47	
ATOM ATOM	14801	N	THR D			37.241	101.304	80.388	1.00 20.88	
ATOM	14803 14805	CA	THR D			36.261	100.795	81.311	1.00 20.80	
ATOM	14803	CB OG1	THR C			36.964	100.260	82.527	1.00 20.78	
ATOM	14809		THR D	430		37.642	99.059	82.162	1.00 20.52	
ATOM	14813	C	THR D			35.968	99.830 101.833	83.570	1.00 21.13	
ATOM	14814	ŏ	THR D			34 040	101.833	81.709	1.00 20.95	
MOTA	14815	N	LEU D			35.656	103.061	81.732 82.031	1.00 21.43	
MOTA	14817	CA	LEU D			34.749	104.140	82.477	1.00 20.54 1.00 20.19	
MOTA	14819	CB	LEU D	431		35.526	105.346	83.034	1.00 20.19	
ATOM	14822	CG	LEU D	431		36.303	105.113	84.328	1.00 20.32	
ATOM	14824	CD1	LEU D	431		37.465	106.062	84.469	1.00 20.58	
ATOM	14828		LEU D	431	٠		105.222	85.522	1.00 21.74	
ATOM ATOM	14832 14833	C	LEU D	431		33.825	104.619	81.356	1.00 20.15	
ATOM	14834	O N	LEU D			32.703	105.037	81.613	1.00 20.28	
MOTA	14836	CA	SER D			34.304	104.570			
ATOM	14838	CB	SER D			33.454	104.740 104.563	78.954	1.00 20.33	
ATOM	14841	OG	SER D	432		33 /06	104.563	77.686	1.00 20.57	
MOTA	14843	C	SER D			32.280	104.757	76.542 78.949	1.00 22.05	
ATOM	14844	0	SER D	432		31.147	103.754	78.686	1.00 20.25	
MOTA	14845	N	SER D			32.543	102.483	79.241	1.00 20.04 1.00 20.49	
ATOM	14847	CA	SER D	433			101.503	79.409	1.00 20.49	
ATOM .	14849	CB	SER D			31.982	100.082	79.627	1.00 21.09	
ATOM	14852	OG	SER D			32.633	99.597	78.477	1.00 21.59	
MOTA	14854	C	SER D			30.523	101.866	80.575	1.00 21.52	
ATOM ATOM	14855	0	SER D	433		29.292		80.455	1.00 21.68	
ATOM	14856 14858	N CA	VAL D			31.098		81.703	1.00 21.43	
ATOM	14860	CB	VAL D			30.290		82.880	1.00 21.01	
ATOM	14862		VAL D	424		31.151 30.306	102.911	84.139	1.00 20.94	
ATOM	14866	CG2	VAL D	434		31.849	103.4//	85.278	1.00 19.93	
						22.022	1.003	84.591	1.00 20.57	

MOTA	14870	C VAL D	434	29 340	103.749	92 520	1 00 00 01	
MOTA	14871	O VAL D		28 181	103.749	82.520	1.00 20.91	
ATOM	14872	N HIS D			103.740	82.932	1.00 20.75	
MOTA	14874	CA HIS D			104.690	81.709	1.00 20.77	
ATOM	14876	CB HIS D	435	20.347	105.756	81.223	1.00 20.87	
ATOM	14879	CG HIS D			106.781	80.437	1.00 20.96	
MOTA	14880	ND1 HIS D			107.955	79.983	1.00 20.27	
ATOM	14882			28.610	108.153	78.664	1.00 19.83	
ATOM		CE1 HIS D	435		109.261	78.564	1.00 20.87	
	14884	NE2 HIS D	435	27.768	109.787	79.768	1.00 19.82	
MOTA	14886	CD2 HIS D		28.412	108.989	80.673	1.00 19.48	
ATOM	14888	C HIS D		27.785	105.218	80.364	1.00 21.06	
MOTA	14889	O HIS D		26.653	105.667	80.513	1.00 20.43	
ATOM	14890	N SER D		28.066	104.251	79.492	1.00 21.62	
MOTA	14892	CA SER D		27.048	103.693	78.597	1.00 22.25	
MOTA	14894	CB SER D		27.635	102.613	77.673	1.00 22.24	
ATOM	14897	OG SER D		28.544	103.161	76.746	1.00 22.26	
MOTA	14899	C SER D		25.900	103.098	79.376	1.00 23.00	
ATOM	14900	O SER D		24.731	103.265	79.004	1.00 22.72	
MOTA	14901	N GLU D			102.374	80.442	1.00 24.39	
MOTA	14903	CA GLU D	437	25.248	101.785	81.336.	1.00 25.46	•
MOTA	14905	CB GLU D	437	25.886	100.835	82.374	1.00 26.10	
MOTA	14908	CG GLU D		26.469		81.849	1.00 29.07	
MOTA	14911	CD GLU D		27.834	99.149	82.489	1.00 33.54	
MOTA	14912	OE1 GLU D		28.743	98.623	81.792	1.00 35.86	
ATOM	14913	OE2 GLU D	437	28.027	99.402	83.705	1.00 36.22	
ATOM	14914	C GLU D	437		102.911	82.029	1.00 30.22	
MOTA	14915	O GLU D	437		102.795	82.201	1.00 25.02	
MOTA	14916	N GLN D	438		104.004	82.391	1.00 25.86	
ATOM	14918	CA GLN D		24.489	105.178	82.982	1.00 25.86	
MOTA	14920	CB GLN D	438	25.511	106.198	83.535	1.00 25.96	
MOTA	14923	CG GLN D	438	24.913	107.543	84.040	1.00 25.07	
ATOM	14926	CD GLN D		23.981	107.423	85.262	1.00 23.70	
MOTA	14927	OE1 GLN D		24.329	107.882	86.341	1.00 23.70	
MOTA	14928	NE2 GLN D	438	22.802	106.843	85.078	1.00 20.30	
MOTA	14931	C GLN D	438	23.476	105.859	82.044	1.00 26.98	
ATOM	14932	O GLN D		22.394	106.234	82.496	1.00 26.77	-
ATOM	14933	N VAL D		23.790	106.006	80.756	1.00 28.01	
MOTA	14935	CA VAL D		22.793	106.566		1.00 28.01	
MOTA	14937	CB VAL D		23.380	107.177	78.503	1.00 28.96	
ATOM	14939	CG1 VAL D	439	24.868	107.455	78.621		
ATOM	14943	CG2 VAL D	439		106.329	77.253	1.00 29.12	
ATOM	14947	C VAL D		21.681	105.562	79.515	1.00 28.94	
MOTA	14948	O VAL D		20.596	105.959	79.118	1.00 29.89	
MOTA	14949	N PHE D		21.948	104.275	79.707	1.00 30.22	
ATOM	14951	CA PHE D	440		103.243	79.536	1.00 30.95	
MOTA	14953	CB PHE D		21 595	101.873	79.336	1.00 31.85	
MOTA	14956	CG PHE D		20.629	100.727	79.329	1.00 32.19	
MOTA	14957	CD1 PHE D	440		100.503	77.870	1.00 32.84	
MOTA	14959	CE1 PHE D	440	19.169	99.434		1.00 33.02	
ATOM	14961	CZ PHE D		18.864	98.571	77.679 78.748	1.00 33.73	•
MOTA	14963	CE2 PHE D	440	19.440	98.780		1.00 33.65	
MOTA	14965	CD2 PHE D	440	20.323	99.850	79.999 80.178	1.00 33.58	
ATOM	14967	C PHE D		19 955	103.201		1.00 34.01	
MOTA	14968	O PHE D			103.201	80.728	1.00 32.06	
ATOM	14969	N ALA D		20.370	102.713	80.588	1.00 32.15	
ATOM	14971	CA ALA D	441	19.538	103.711	81.886	1.00 32.36	
MOTA	14973	CB ALA D		20.377	103.004	83.087	1.00 32.82	
ATOM	14977	C · ALA D		18.414	104 606	84.327	1.00 32.64	
ATOM	14978	O ALA D		17.235	104.030	83.010	1.00 33.50	
ATOM	14979	N LEU D	442	18.786	105.339	83.161	1.00 33.86	
ATOM	14981	CA LEU D		17.814	107.332	82.776	1.00 34.19	
				-1.014	TO1.021	82.533	1.00 34.50	

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15093 15095 15098 15100 15104 15108 15109 15110 15112 15114		LEU		452 452 452 452 452 452 453 453		23.266 23.682 22.854 21.801 23.744 24.161 25.193 23.741 24.408	116.642 118.095 119.281 119.881 120.418 115.589 115.191 115.135 114.059 114.294	70.473 70.828 70.231 71.212 69.669 71.170 70.625 72.356 73.097 74.599	1.00 28.36 1.00 28.65 1.00 29.52 1.00 29.54 1.00 29.58 1.00 28.18 1.00 28.53 1.00 27.86 1.00 27.44
ATOM ATOM ATOM ATOM	15086 15089 15090 15091	CD C N	PRO PRO PRO LEU ·	D D	451 451		21.234 21.815	116.587 115.299 114.398 116.403	71.655 70.326 69.720 70.760	1.00 27.45 1.00 27.94 1.00 28.24 1.00 28.06
MOTA MOTA	15080 15083	CB CG	PRO PRO	D	451		18.949 17.763	115.895 116.483	69.504	1.00 27.70
MOTA	15078	CA	PRO		451			115.714	70.583	1.00 27.30
ATOM	15077	N	PRO		451	•		115.714	73.113	1.00 26.62
ATOM	15075	0	PRO					115.441 114.858	73.018 73.115	1.00 26.95 1.00 26.62
ATOM ATOM	15072 15075	CD	PRO PRO		450 450			115.399	76.436	1.00 26.46
ATOM	15069	CG	PRO		450			116.696	75.915	1.00 26.72
ATOM	15066	CB	PRO		450		19.740	117.152	74.882	1.00 26.75
ATOM ·	15064	CA	PRO				19.144	115.863	74.308	1.00 26.76
ATOM	15063		PRO					113.239	75.343	1.00 26.12
ATOM	15061	0	LEU					113.622	75.224 74.246	1.00 26.24 1.00 26.12
ATOM	15057	CD2 C	LEU LEU			-		111.946 113.622	78.057	1.00 26.67
ATOM ATOM	15053 15057		LEU					110.928	76.073	1.00 27.14
ATOM	15051	CG	LEU					111.168	76.782	1.00 26.55
ATOM	15048	CB .	LEU	D	449		20.559	111.864	75.806	1.00 25.94
ATOM	15046	CA	LEU					112.652	76.323	1.00 25.86
ATOM	15045	N	LEU					111.757	76.699	1.00 25.06 1.00 25.86
ATOM	15042	0	LYS				17.243	112.154 113.311	77.448 77.833	1.00 25.39
ATOM ATOM	15038 15042	NZ C	LYS LYS					108.554	79.610	1.00 23.62
ATOM	15035	CE	LYS					108.584	78.394	1.00 24.27
MOTA	15032	CD	LYS					109.988	77.802	1.00.25.03
ATOM	15029	CG	LYS	D	448		14.022	110.071	76.873	1.00 25.72
ATOM	15024	CB	LYS		448			111.330	77.087	1.00 25.29
ATOM	15022	CA	LYS				15.998		79.247	1.00 25.17 1.00 25.29
ATOM ATOM	15021 15022	N O	ARG LYS		443		15.027	104.153 111.025	80.001	1.00 35.94
MOTA	15020	C .	ARG		443			104:189	79.388	1.00 36.19
ATOM	15017		ARG		443			103.465	72.739	1.00 41.66
ATOM	15014	NH1	ARG	D	443		19.564	103.859	74.761	1.00 41.55
ATOM	15013	CZ	ARG					103.611	74.053	
ATOM	15011	NE	ARG						74.638	1.00 39.77
ATOM	15003	CD	ARG				16.997		76.553 76.076	1.00 38.14 1.00 39.77
ATOM	15002 15005	CB	ARG ARG				17.797	105.356 105.137	77:923	1.00 36.58
ATOM ATOM	15000 15002	CA CB	ARG					105.517	79.125	1.00 36.37
MOTA	14998	N	ARG					105.987	80.317	1.00 35.82
ATOM	14997	0	LEU				15.887		81.148	1.00 35.60
ATOM	14996	C	LEU		442	•	17.008		81.261	1.00 35.15
ATOM	14992	CD2	LEU		442		20.760		83.370	1.00 33.44 1.00 33.45
ATOM	14986 14988	CG CD1	LEU LEU		442 442			108.588 109.612	82.129 .81.037	1.00 33.86
ATOM ATOM	14983	CB	LEU					108:413	82.454	1.00 34.50
7.00	1 4000	~-		_						•

ATOM	15123	CD2	LEU LEU				115.688 112.659	74.855 72.768	1.00 26.44 1.00 27.82		C C
MOTA	15127		LEU				111.668	72.706	1.00 27.62		Ö
ATOM ATOM	15128 15129		SER				112.581	72.340	1.00 28.20		N
ATOM	15131		SER				111.311	71.948	1.00 28.50		C
ATOM	15133	CB	SER				111.494	71.754	1.00 28.31		C
ATOM	15136	OG	SER				110.600	70.781	1.00 28.47		0
MOTA	15138	C	SER				110.721	70.681	1.00 28.88		С
ATOM	15139	Õ	SER				109.519	70.480	1.00 28:85		0
ATOM	15140	N	GLU				111.572	69.845	1.00 29.68		N
MOTA	15142	CA	GLU	D	455		111.124	68.620	1.00 30.43		С
ATOM	15144	CB	GLU				112.310	67.664	1.00 30.88		C
MOTA	15147	CG	GLU				111.988	66.179	1.00 33.31		C
MOTA	15150	CD	GLU				111.630	65.404	1.00 36.35		C
MOTA	15151	OE1					111.618	64.139	1.00 38.01		0
MOTA	15152	OE2	GLU				111.364	66.042	1.00 37.44		0 C
MOTA	15153	C	GLU				110.396	68.931	1.00 30.06		^
MOTA	15154	0			455		109.522	68.178	1.00 30.05		N
MOTA	15155	N			456		110.741	70.058 70.396	1.00 29.91 1.00 30.08	•	C
MOTA	15157	CA			456		110.254	70.396	1.00 30.08		٠ ح
MOTA	15159	CB			456		111.336 112.718	70.543	1.00 30.17		Č
MOTA	15161	CG1	ILE		456 456		113.837	70.343	1.00 30.69		č
MOTA	15164 15168						110.993	71.206	1.00 30.54		č
ATOM ATOM	15172	C			456		109.011	71.270	1.00 29.78		Č
ATOM	15172	ŏ			456		108.157	71.226	1.00 29.77		0
ATOM	15174	Ň			457		108.920	72.075	1.00 29.47		N
ATOM	15176	CA			457		107.986	73.185	1.00 29.20		С
ATOM	15178	CB			457		108.761	74.496	1.00 29.03		С
ATOM	15181	CG	TRP	D	457		109.531	74.772	1.00 27.61		С
ATOM	15182	CD1	TRP	D	457		109.207	74.367	1.00 26.17		С
MOTA	15184	NE1	TRP	D	457		110.149	74.819	1.00 26.12		N
ATOM	15186				457		111.112	75.522	1.00 25.26		C
MOTA	15187				457		110.761	75.508	1.00 25.56		C
MOTA	15188	CE3			457		111.596	76.165	1.00 24.92		C
MOTA	15190	CZ3			457		112.724	76.788	1.00 24.01		0
MOTA	15192				457		113.047	76.777	1.00 23.98		00000
ATOM	15194				457		112.260 106.918	76.149 73.145	1.00 24.30 1.00 29.64		č
ATOM	15196	C			457 457		105.871	73.761	1.00 30.11		CONCC
ATOM ATOM	15197 15198	O N			458		107.149	72.446	1.00 29.64		N
ATOM	15200	CA			458		106.067	72.163	1.00 30.00		C
ATOM	15200	CB			458		106.620	71.901	1.00 30.42		C
ATOM	15205	CG			458		107.227	73.163	1.00 31.26		С
ATOM	15206				458		106.506	74.181	1.00 33.17		0
ATOM	15207	QD2	ASP	D	458	20.323	108.401	73.214	1.00 30.31		0
ATOM	15208	С			458	23.405	105.243	70.956	1.00 29.75		C
MOTA	15209	0	ASP	D	458		104.510	70.272	1.00 29.41		0
ATOM	15210				500		116.760	81.248	1.00 43.28		. 0
MOTA	15211				500		116.387	82.132			S
MOTA	15212				500		116.769	81.817	1.00 43.05		0
MOTA	15213				500		117.217	83.634	1.00 44.92		C
MOTA	15214				500		2 117.604	84.565	1.00 46.73		C
MOTA	15216				500		118.247	85.767	1.00 47.36 1.00 47.70		c
MOTA	15218				500		. 118.493) 118.103	86.031 85.104	1.00 47.70		c
ATOM ATOM	15220				500		117.452	83.895			č
ATOM	15222 15224				500		5 114.676	82.479			N
MOTA	15225				500		7 114.289	83.828			Ċ
MOTA	15228				500		3 113.140	83.555			C
ATOM	15229				500		5 112.067	83.351			F
			·			·		·····			

MOTA	15230		444			33.	170	112.908	84.610		29.72			F
ATOM ATOM	15231 15232	C23	444	ם	500 500	. 33.	122	113.297 114.039			28.12			F
ATOM .		C24	444	D	500	29.	431	113.536	82.203 80.912		28.86 27.15			· C
MOTA	15235	C25	444	D	500	28.	198	112.945	80.565	1 00	25.98	_		C
ATOM	15237	C28	444	D	500	28.	554	113.983	83.165		26.98			C
MOTA	15239		444			27.	328	113.383	82.828		25.42	•		c
ATOM	15241	C26	444	D	500	27.	118	112.846	81.517	1.00	24.42		٠	č
ATOM	15242		444			25.	792	112.183	81.029	1.00	22.86			Č.
ATOM ATOM	15243 15244		444		500			111.097	81.997		20.31			С
ATOM	15245		444			24.	196	110.407	81.435		15.54			· · F
ATOM	15246		444					110.287 111.597	82.370 83.166		20.02			. F
MOTA	15247		444			25.	988	111.622	79.680		20.09 24.12			F
MOTA	15249	C38	444	D	500	24.	688	113.270	80.950		22.86			0
MOTA	15250		444		500	24.	402	113.916	82.114		21.70			F
ATOM	15251		444		500	25.	139	114.271	80.152	1.00	23.02			F
MOTA	15252		444			23.	522	112.780	80.476	1.00	21.85		•	F
ATOM ATOM	15253 15256		HOH		1	46.		92.966	60.943	1.00	34.51			0
ATOM	15259		HOH HOH		2	43.		86.741	60.458		21.54			0
ATOM	15262		НОН		4	-8. 32.		37.033 22.773	50.353	1.00	32.34			0
ATOM	15265		НОН		5	14.		40.833	46.22 <u>4</u> 44.521		35.84			0
ATOM	15268		НОН		6	-4.		33.429	56.969		26.16 22.66			0
ATOM	15271	OH2	нон	X	7		182	33.211	51.836		25.14			0
ATOM	15274	OH2	HOH	X	8	42.		92.308	87.001		31.51			Ö
ATOM	15277		НОН		9			38.054	50.008		29.19			ŏ
ATOM	15280	OH2	НОН	Х	10	11.		48.043	48.250	1.00	27.34			ŏ
ATOM ATOM	15283 15286	OH2	НОН		11.	61.	225	114.890	67.101		38.72			0
ATOM	15289		НОН		12 13	41.	102	104.749	75.930		39.93			0
ATOM	15292		НОН		14	43.		95.687 107.966	80.489		29.34			0
ATOM	15295		нон		15	7.		49.068	69.692 50.128		30.35			0
MOTA	15298		НОН		16	10.		45.008	40.909		28.92 32.15			0
MOTA	15301	OH2	нон	Х	17	2.		16.569	62.303		34.89			0
MOTA	15304		HOH		18	20.1		45.121	29.759		36.12			Ö
ATOM	15307		НОН		20	-24.		20.835	48.248		41.60			ŏ
ATOM ATOM	15310 15313		НОН		21	33.			78.961	1.00	33.24			Ö
ATOM	15316		нон нон		22 23	40.0		90.209	61.705		31.52			0
ATOM	15319		НОН		24	55.5 23.8		82.920 31.530	79.410		42.28	-		0
ATOM	15322	OH2			25	8.9		44.376	42.241 48.177		31.86			0
MOTA	15325	OH2			26	36.8		88.047	82.041		35.40 29.20			0
MOTA	15328	OH2			27	5.3		40.886	61.707	1.00	37.26			0
ATOM	15331	OH2	НОН	X	28	16.5	18	33.981	29.281	1.00	33.23			ő
ATOM ATOM	15334	OH2			29	6.0		60.077	49.223	1.00	48.04			ŏ
ATOM	15337 15340	OH2			30	61.6		85.208	92.702	1.00	22.47			Ō
ATOM	15343	OH2 OH2	HOH	X V	31 32	30.5		91.470	70.226		43.75			0
ATOM	15346	OH2			33	40.8 19.6		82.761	59.479	1.00	35.50		•	0
MOTA	15349	OH2			34	12.8		39.489 44.208	29.060 34.109		26.50			0
MOTA	15352	OH2	HOH	X	35	32.9		39.602	48.595		39.68 42.39	•		0
ATOM	15355	OH2	HOH	X	36	23.7	49	36.540	35.504		25.43			0
MOTA	15358	OH2			37	24.7	80	25.459	46.968		33.72			0
ATOM ATOM	15361	OH2			38	49.0	99	77.477	91.071	1.00	40.02			ŏ
ATOM	15364 15367	OH2	HOH	X	39			105.012	66.983	1.00	42.25			ŏ
ATOM	15370	OH2 OH2	HOH	Λ Υ	40 41	7.6		41.675	44.947		33.21			0
ATOM	15373	OH2			42	5.1 16.6		27.301 43.571	63.404		34.78			0
ATOM	15376	OH2			43			104.982	31.693 74.371	1.00	39.41 41.79			0
ATOM	15379	OH2			44	57.8		85.188	90.141		33.55			0
									~~~~~	1.00				. 0

ATOM ATOM ATOM ATOM ATOM	15382 15385 15388 15391 15394	OH2 1 OH2 1 OH2 1 OH2 1	HOH 2 HOH 2	ζ ζ ζ	45 46 47 48 49	29.538 12.599 28.126 11.129 -11.613	70.693 46.276 22.913 33.667 23.589	76.936 27.929 46.477 46.692 62.844	1.00 30.56 1.00 49.86 1.00 47.72 1.00 49.46 1.00 54.23	0 0 0 0
MOTA	15397	OH2			50	-1.060	49.229	56.547	1.00 46.16	0
ATOM ATOM	15400 15403	OH2 OH2			51 52	37.636 27.519	92.539 41.154	81.720 40.197	1.00 · 36.58 1.00 35.37	0
ATOM	15405	OH2			53	40.050	99.057	64.126	1.00 52.91	Ö
MOTA	15409	OH2	нон :	X	54	-19.683	26.686	47.468	1.00 44.72	0
MOTA	15412	OH2			55	50.246	84.320	94.984	1.00 34.24	0
ATOM	15415 15418	OH2 OH2			56 57	16.902 38.060	38.476 67.355	34.555 68 317	1.00 32.06 1.00 41.43	. 0
ATOM ATOM	15421		HOH :		58	60.904	94.982	89.432	1.00 34.65	ŏ
ATOM	15424		нон		59	-17.325	22.794	57.113	1.00 46.37	0
MOTA	15427		НОН		60	3.362	13.072	65.124	1.00 38.40	0
MOTA	15430		HOH		61 62	34.741 36.894	71.754	74.730 79.474	1.00 37.68 1.00 32.98	0
ATOM ATOM	15433 15436		HOH HOH		63	13.379	32.879	42.381	1.00 32.30	Ö
ATOM	15439		нон		64		124.169	78.443	1.00 35.68	0
MOTA	15442		нон		65	45.804	94.373	63.138	1.00 38.40	0.
ATOM	15445	OH2			66	51.421	95.969	67.069 48.061	1.00 43.00 1.00 34.37	0
ATOM ATOM	15448 15451		нон нон		67 68	11.339 34.894	36.149 90.045	94.991	1.00 54.37	0
MOTA	15454		нон		69	12.975	47.342	35.353	1.00 39.82	Ö
ATOM	15457		HOH		70	63.059	87.658	92.928	1.00 42.47	0
ATOM	15460		HOH		71	33.804	93.321	79.878	1.00 47.03	0
ATOM ATOM	15463 15466		нон нон		72 73	2.417 17.739	31.051 57.775	61.473 68.846	1.00 41.02 1.00 51.94	0
ATOM	15469		НОН		74	25.040	39.514	30.274	1.00 35.46	ŏ
ATOM	15472	OH2	нон	X	75	9.628	47.145	38.834	1.00 35.97	0
MOTA	15475		НОН		76	-1.455	38.558	54.975	1.00 43.93	0
MOTA MOTA	15478 15481		нон нон		77 78	23.890 35.220	32.054 87.143	65.767 59.408	1.00 40.56 1.00 47.79	0
MOTA	15484		нон		79	-3.737	37.957	51.063	1.00 37.26	ŏ
ATOM	15487	OH2	нон	X	80	26.390	20.517	51.266	1.00 41.78	0
ATOM	15490		НОН		81	44.780	96.146	82.783	1.00 40.78	0
ATOM ATOM	15493 15496		нон нон		82 83	61.022 10.746	96.896 33.408	91.425 64.943	1.00 47.39 1.00 41.11	0
ATOM	15499		нон		84	42.068	92.559	99.125	1.00 40.71	ŏ
MOTA	15502	OH2	нон	X	85	37.825	95.713	83.950	1.00 42.10	0
MOTA	15505		НОН		86	18.527		32.746	1.00 31.46	0
MOTA MOTA	15508 15511		HOH HOH		87 88	34.168 19.596		54.739 72.373	1.00 39.12 1.00 46.37	0
ATOM	15514		НОН			11.760		73.671		ŏ
ATOM	15517		нон		90	57.669	113.347	68.754	1.00 41.84	0
ATOM	15520		НОН		91	-6.478		47.625	1.00 35.45	0
MOTA MOTA	15523 15526		HOH HOH		92 93	21.629 46.330		53.544 84.817	1.00 43.70 1.00 51.22	0
ATOM	15529		нон		94	-0.340		62.724	1.00 62.65	Ö
ATOM	15532		нон		95	62.907		75.543	1.00 59.06	0
ATOM	15535		НОН		96	8.178		44.411	1.00 51.10	0
MOTA	15538		нон Нон		97 98	27.884		62.492 48.102	1.00 40.76 1.00 48.95	0
MOTA ATOM	15541 15544		НОН		99	-8.889 9.002		72.903	1.00 48.95	0
ATOM	15547		НОН			31.344		45.713	1.00 43.51	Õ
MOTA	15550	OH2	нон	X	101	18.153	37.397	64.337		0
MOTA	15553		HOH			1.030		57.245		0
ATOM ATOM	15556 15559		HOH HOH			29.712 22.984	106.432	76.942 63.390	1.00 40.89 1.00 42.03	0
MOTA	15562		нон			51.193		95.149		ő
							<del></del>		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

ATOM			33.792 91.621	90.143	1.00 51.13	_
ATOM			36.239 92.488			. 0
ATOM			-3.601 13 130	44.654		0
ATOM			49.245 108.437		1.00 35.43	0
ATOM		OH2 HOH X 110			1.00 39.52	ŏ
ATOM ATOM		OH2 HOH X 111	-18.855 46.772	46.188	1.00 58.56	ŏ
ATOM		OH2 HOH X 112	45.326 103.771 60.490 82.135	72.690		. 0
ATOM		OH2 HOH X 113	60.490 82.135	95.444	1.00 35.66	Ö
ATOM		0112 11011 11 1114	33.49/ 88 269	70.140		. 0
ATOM		000 000 11 146	32.011 109.362			Ō
ATOM		OH2 HOR X 116	0.426 9.190 36.454 102.339	66.809	1.00 41.95	0
ATOM		OH2 HOH X 119	30.434 102.339			0
ATOM		OH2 HOH X 119	-3.746 7.119 16.245 39.647	61.813	1.00 47.41	0
ATOM	15607	OH2 HOH X 120	-15.201 15.272	65.869 45.138		0
MOTA	15610	OH2 HOH X 121	56.346 83 142	90.536		. 0
ATOM	15613	OH2 HOH X 122 OH2 HOH X 123	12.750 37.842	70.610		0
MOTA		ОН2 НОН X 123	8.747 37.163	22 204	1.00 45.55 1.00 40.95	0
ATOM		OH2 HOH X 124	61.006 109.762	72.425	1.00 40.95	0
ATOM		OH2 HOH X 125	61.006 109.762 46.773 121.479	78.212	1.00 40.44	0
ATOM		OHZ HOH X 126	46.357 103 993	67.888	1.00 42.09	0.
ATOM		OH2 HOH X 127	25.492 45.676	35.124	1.00 55.50	0
ATOM		OH2 HOH X 128	-0.796 46.044	59.885	1.00 44.16	0
ATOM		OH2 HOH X 129	3.729 30.062	68.882	1.00 43.81	0
ATOM ATOM		OH2 HOH X 130 OH2 HOH X 131	48.573 84.962	56.210	1.00 43.53	ŏ
ATOM		OH2 HOH X 131		57.877	1.00 52.66	ŏ
ATOM		OH2 HOH X 132	-23.390 27.562	46.202	1.00 46.29	Ö
ATOM		OH2 HOH X 133 OH2 HOH X 134	36.470 27.644	53.311	1.00 50.64	. 0
ATOM		OH2 HOH X 134	16.019 63.275	53.172	1.00 58.47	Ō
ATOM	15655	OH2 HOH X 135 OH2 HOH X 136	-24.310 23.846	44.067	1.00 45.15	0
ATOM	15658	OH2 HOH X 136 OH2 HOH X 137	10.555 49.737	71.777	1.00 52.75	0
ATOM	15661	OH2 HOH X 138		68.136	1.00 54.10	0
ATOM	15664	OH2 HOH X 139	23.425 48.004 13.175 50.753	36.029	1.00 60.82	0
ATOM	15667	OH2 HOH X 140	4.424 42.442	30.871 47.614	1.00 50.31	0
ATOM	15670		21.786 39.941	30.408	1.00 50.61 1.00 41.84	0
MOTA	15673	OH2 HOH X 142		84.033	1.00 41.84	0
ATOM	15676	OH2 HOH X 143	46.374 98.519 30.667 21.882	56.816	1.00 49.67	0
ATOM	15679	OH2 HOH X 144	6.883 17.302	67.157	1.00 44.68	0
ATOM	15682	OH2 HOH X 145	-0 666 40 701	52.911	1.00 55.03	0
ATOM	15685	OH2 HOH X 146	46.777 99.081	89.567	1.00 38.00	0
ATOM ATOM	15688 15691	OH2 HOH X 147	44.860 79.405	78.864	1.00 44.03	ő
ATOM	15691	OH2 HOH X 148 OH2 HOH X 149	-1.046 34.042	71.130	1.00 50.39	Ö
ATOM	15697	OH2 HOH X 149 OH2 HOH X 150	50.211 98.627	71.049	1.00 52.24	ō
ATOM	15700	OH2 HOH X 150	59.387 81.812		1.00 37.06	O
ATOM	15703	OH2 HOH X 151	35.147 89.645	81.199	1.00 34.78	0
ATOM	15706	OH2 HOH X 153	8.708 46.589 11.645 48.307	42.720	1.00 39.52	0
ATOM	15709	OH2 HOH X 154	11.645 48.307 8.993 47.914	37.723	1.00 27.22	0
MOTA	15712	OH2 HOH X 155	10.193 45.169	47.811	1.00 33.15	0
MOTA	15715	ОН2 НОН Х 156	65.460 87.643	71.150 94.825	1.00 54.72	0
MOTA	15718	ОН2 НОН Х 157	-7.012 39.371	50.073	1.00 44.03 1.00 32.06	0
	. 15721	ОН2 НОН Х 158	31.654 106.977	74.549	1.00 32.06	0
ATOM	15724	ОН2 НОН Х 159	21.167 41.889	71.647	1.00 35.49	0
ATOM	15727	ОН2 НОН X 160	-25.714 18.816	48.564	1.00 49.63	0
ATOM	15730	OH2 HOH X 161	33.611 28.996	44.403	1.00 53.51	0
ATOM	15733	OH2 HOH X 162	59.252 85.715	92.605	1.00 38.66	0
ATOM ATOM	15736	OH2 HOH X 163	56.509 79.788	79.546	1.00 51.27	0
ATOM	15739 15742	OH2 HOH X 164	61.945 84.384	95.225	1.00 37.20	Ö
MOTA	15742	OH2 HOH X 165	21.292 39.470	65.165	1.00 43.24	ŏ
5.1 OF1	10110	ОН2 НОН Х 166	15.971 40.815	31.178	1.00 40.20	ŏ
		•				-

15748 15751 15754 15757 15760	OH2 OH2 OH2	HOH HOH	X X X	168 169 170	6.544 -24.303 34.981	11.603 26.808 69.780	53.562 61.259 42.736 79.701	1.00 1.00 1.00	53.05 61.79 40.54	0 0
15763										0
15766										0
15769	OH2	нон	X	174						0
15772	OH2	HOH	Х	175	22.163	36.653	32.630			0
					28.413	34.741	46.994			0
					8.522	49.608	45.435			0
					20.863	62.029	52.043	1.00	50.34	ŏ
	OH2	HOH	X	179	4.382	46.594	47.704			Ö
15787	OH2	HOH	X	180	20.936	27.200				Ö
15790	OH2	HOH	Х	181	-5.954	7.428				0
15793	OH2	нон	X	182	51.690	126.628	74.732			0
	15751 15754 15757 15760 15763 15766 15772 15775 15778 15778 15781 15784 15787 15790	15751 OH2 15754 OH2 15757 OH2 15760 OH2 15763 OH2 15766 OH2 15769 OH2 15772 OH2 15775 OH2 15778 OH2 15781 OH2 15784 OH2 15787 OH2 15787 OH2 15787 OH2	15751 OH2 HOH 15754 OH2 HOH 15757 OH2 HOH 15760 OH2 HOH 15763 OH2 HOH 15766 OH2 HOH 15769 OH2 HOH 15772 OH2 HOH 15775 OH2 HOH 15775 OH2 HOH 15778 OH2 HOH 15781 OH2 HOH 15784 OH2 HOH 15787 OH2 HOH 15787 OH2 HOH	15751 OH2 HOH X 15754 OH2 HOH X 15757 OH2 HOH X 15760 OH2 HOH X 15763 OH2 HOH X 15766 OH2 HOH X 15769 OH2 HOH X 15772 OH2 HOH X 15775 OH2 HOH X 15778 OH2 HOH X 15781 OH2 HOH X 15784 OH2 HOH X 15787 OH2 HOH X 15787 OH2 HOH X 15787 OH2 HOH X	15751 OH2 HOH X 168 15754 OH2 HOH X 169 15757 OH2 HOH X 170 15760 OH2 HOH X 171 15763 OH2 HOH X 172 15766 OH2 HOH X 173 15769 OH2 HOH X 174 15772 OH2 HOH X 175 15775 OH2 HOH X 176 15778 OH2 HOH X 177 15781 OH2 HOH X 178 15784 OH2 HOH X 179 15787 OH2 HOH X 179 15787 OH2 HOH X 180 15790 OH2 HOH X 181	15751 OH2 HOH X 168 6.544 15754 OH2 HOH X 169 -24.303 15757 OH2 HOH X 170 34.981 15760 OH2 HOH X 171 51.901 15763 OH2 HOH X 172 18.091 15766 OH2 HOH X 173 34.412 15769 OH2 HOH X 174 41.936 15772 OH2 HOH X 175 22.163 15775 OH2 HOH X 176 28.413 15778 OH2 HOH X 177 8.522 15781 OH2 HOH X 178 20.863 15784 OH2 HOH X 179 4.382 15787 OH2 HOH X 180 20.936 15790 OH2 HOH X 181 -5.954	15751 OH2 HOH X 168 15754 OH2 HOH X 169 15757 OH2 HOH X 169 15760 OH2 HOH X 170 15763 OH2 HOH X 171 15766 OH2 HOH X 172 15769 OH2 HOH X 173 15772 OH2 HOH X 174 15772 OH2 HOH X 175 15775 OH2 HOH X 175 15775 OH2 HOH X 176 15775 OH2 HOH X 177 15778 OH2 HOH X 178 15778 OH2 HOH X 179 15781 OH2 HOH X 179 15784 OH2 HOH X 179 15787 OH2 HOH X 180 15790 OH2 HOH X 180 15790 OH2 HOH X 181 -5.954 7.428	15751 OH2 HOH X 168 15754 OH2 HOH X 169 15757 OH2 HOH X 170 15760 OH2 HOH X 171 15763 OH2 HOH X 172 15766 OH2 HOH X 173 15769 OH2 HOH X 174 15772 OH2 HOH X 175 15775 OH2 HOH X 176 15775 OH2 HOH X 177 15769 OH2 HOH X 174 15775 OH2 HOH X 175 15776 OH2 HOH X 175 15777 OH2 HOH X 176 15778 OH2 HOH X 177 15778 OH2 HOH X 177 15781 OH2 HOH X 178 15781 OH2 HOH X 179 15784 OH2 HOH X 179 15787 OH2 HOH X 180 157790 OH2 HOH X 180 157790 OH2 HOH X 181 15780 OH2 HOH X 181	15751 OH2 HOH X 168 15754 OH2 HOH X 169 15757 OH2 HOH X 170 15760 OH2 HOH X 171 15763 OH2 HOH X 172 15766 OH2 HOH X 173 15769 OH2 HOH X 174 15772 OH2 HOH X 175 15775 OH2 HOH X 175 15775 OH2 HOH X 176 15776 OH2 HOH X 177 15776 OH2 HOH X 177 15777 OH2 HOH X 177 15778 OH2 HOH X 178 15778 OH2 HOH X 179 15778 OH2 HOH X 180 15779 OH2 HOH X 180 15779 OH2 HOH X 181 15790 OH2 HOH X 181	15751 OH2 HOH X 168 15754 OH2 HOH X 169 15757 OH2 HOH X 170 15760 OH2 HOH X 171 15763 OH2 HOH X 172 15766 OH2 HOH X 173 15769 OH2 HOH X 174 15770 OH2 HOH X 175 15772 OH2 HOH X 175 15775 OH2 HOH X 176 15775 OH2 HOH X 177 15776 OH2 HOH X 178 15777 OH2 HOH X 178 15778 OH2 HOH X 177 15778 OH2 HOH X 177 15778 OH2 HOH X 177 15778 OH2 HOH X 178 15778 OH2 HOH X 179 15781 OH2 HOH X 179 15781 OH2 HOH X 179 15787 OH2 HOH X 179 15787 OH2 HOH X 180 15780 OH2 HOH X 180 15780 OH2 HOH X 180 157790 OH2 HOH X 181 15790 OH2 HOH X 181

## CO-ORDINATE TABLE 2

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REMARK ******* CONFIDENTIAL *********************
REMARK THESE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS ARE PROPRIETARY
        INFORMATION BELONGING TO KARO BIO AB , STOCKHOLM, SWEDEN.
REMARK
REMARK THEY ARE TO BE HELD IN CONFIDENCE AND ARE NOT TO BE USED FOR REMARK PURPOSES OF EXTERNAL PUBLICATION OR REDISTRIBUTED TO ANY
        SOURCE OUTSIDE OF KARO BIO WITHOUT AUTHORIZATION.
REMARK **********************************
REMARK
TITLE
           HUMAN LXR BETA HORMONE RECEPTOR /
TITLE
         2 KB043546/WAY207380/GW3965 COMPLEX
REMARK
REMARK
        ATOMIC COORDINATES OF A CRYSTAL STRUCTURE
REMARK
REMARK
        DEPOSITOR: MATHIAS FARNEGARDH (MATHIAS.FARNEGARDH@KAROBIO.SE)
REMARK
        DEPOSITION DATE 5-SEP-2002
REMARK
REMARK
        THIS FILE REPLACE lxrb_KB43546_b1.pdb (11-MAR 2002)
REMARK
REMARK
        THE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS IN THIS FILE ARE THE
REMARK
REMARK
        EXPERIMENTAL RESULTS OF:
REMARK
REMARK MATHIAS FARNEGARDH, KARO BIO AB
REMARK NOVUM, 141 57 HUDDINGE, SWEDEN
REMARK
REMARK THIS ENTRY CONTAINS THE COMPLETE CONTENT OF THE ASYMETRIC UNIT
        THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON DENSITIES
REMARK
        IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS
REMARK
        CHAIN A 220-242, 247-253, 259-460 (HIS460 MODELLED AS ALA)
REMARK
REMARK A500 IS THE LIGAND
REMARK CHAIN B 220-460 (HIS460 MODELLED AS ALA) B500 IS THE LIGAND
REMARK CHAIN C 220-252, 264-438 THERE ARE WEAK DENSITIES SUGGESTING A LOW
REMARK OCCUPANCY OF THE LIGAND. EXPERIMENTS TO ESTIMATE THE OCCUPANCY
REMARK SUGGESTS AN OCCUPANCY AROUND 0.5-0.6. THERE ARE ALSO SOME WEAK BUT
        UNINTERPRETABLE DENSITY IN THE REGION WHERE H12 SITS IN THE A B AND
REMARK
        D CHAINS.
        CHAIN D 220-244, 248-254, 263-444, 448-460 (HIS460 MODELLED AS ALA)
REMARK
REMARK D500 IS THE LIGAND
       THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE GAPS IN THE
REMARK
REMARK STRUCTURE ARE DUE TO UNINTERPRETABLE ELECTRONDENSITIES IN THESE
REMARK PARTICUALR REGIONS
HEADER
          LXRB+KB043546/WAY207380/GW3965
                                                   05-SEP-02
                                                               XXXX
COMPND
          MOL ID: 1;
COMPND
         2 MOLECULE: LIVER X RECEPTOR BETA;
         3 CHAIN: A, B, C, D;
4 FRAGMENT: LIGAND BINDING DOMAIN;
COMPND
COMPND
COMPND
         5 SYNONYM: LXRB;
REMARK
         3
REMARK
         3 REFINEMENT.
REMARK
         3
             PROGRAM
                         : REFMAC 5.1.19
REMARK
         3
             AUTHORS
                         : MURSHUDOV, VAGIN, DODSON
REMARK
         3
REMARK
         3
              REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK
         3
REMARK
         3
            DATA USED IN REFINEMENT.
REMARK
             RESOLUTION RANGE HIGH (ANGSTROMS) :
             RESOLUTION RANGE LOW (ANGSTROMS): 87.71
REMARK
REMARK
             DATA CUTOFF
                                     (SIGMA(F)) : NONE
```

```
COMPLETENESS FOR RANGE (%): 98.41
REMARK
                 NUMBER OF REFLECTIONS
                                                                   38254
REMARK
           3
REMARK
            3
            3 FIT TO DATA USED IN REFINEMENT.
REMARK
                 CROSS-VALIDATION METHOD
                                                             : THROUGHOUT
REMARK
                 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK
            3
                 R VALUE (WORKING + TEST SET) : 0.20934
REMARK
                                          (WORKING SET) : 0.20655
                 R VALUE
REMARK
                                                             : 0.26237
                 FREE R VALUE
REMARK
                 FREE R VALUE TEST SET SIZE (%): 5.0
REMARK
                 FREE R VALUE TEST SET COUNT
                                                                  2021
REMARK
REMARK
            3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK
                 TOTAL NUMBER OF BINS USED
                                                                          20
REMARK
                                                                         2.400
                  BIN RESOLUTION RANGE HIGH
REMARK
            3
                 BIN RESOLUTION RANGE LOW
                                                                       2.462
REMARK
            3
                                                                         2689
                 REFLECTION IN BIN (WORKING SET) :
REMARK
                                              (WORKING SET): 0.218
            3
                  BIN R VALUE
REMARK
                  BIN FREE R VALUE SET COUNT :
                                                                          140
REMARK
                                                                         0.296
                  BIN FREE R VALUE
REMARK
REMARK
            3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK
                                                   : 7673
            3
                 ALL ATOMS
REMARK
REMARK
             3
             3 B VALUES.
REMARK
                                            (A**2) : NULL
                FROM WILSON PLOT (A**2): NULL MEAN B VALUE (OVERALL, A**2): 23.076
REMARK
            3
REMARK
           3
                 OVERALL ANISOTROPIC B VALUE.
REMARK
                  B11 (A**2) : -0.75
           3
 REMARK
                  B22 (A**2):
           3
                                         1.03
 REMARK
                  B33 (A**2): -0.28
B12 (A**2): 0.00
B13 (A**2): 0.00
B23 (A**2): 0.00
           3
 REMARK
 REMARK
             3
             3
 REMARK
 REMARK
             3
 REMARK
             3 ESTIMATED OVERALL COORDINATE ERROR.
 REMARK
                                                                                    (A):
                                                                                             0.511
                 ESU BASED ON R VALUE
 REMARK
                                                                                             0.288
                  ESU BASED ON FREE R VALUE
                                                                                    (A):
 REMARK
                                                                                            0.208
                  ESU BASED ON MAXIMUM LIKELIHOOD
                                                                                    (A):
 REMARK
                  ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):
                                                                                           8.796
 REMARK
             3
 REMARK
             3 CORRELATION COEFFICIENTS.
 REMARK
                  CORRELATION COEFFICIENT FO-FC : 0.939
 REMARK
             3
                  CORRELATION COEFFICIENT FO-FC FREE: 0.901
 REMARK
             3
 REMARK
             3
                                                                     COUNT
                                                                                  RMS
             3 RMS DEVIATIONS FROM IDEAL VALUES
 REMARK
                 BOND LENGTHS REFINED ATOMS (A): 7652; 0.016; 0.022
BOND LENGTHS OTHERS (A): 7154; 0.003; 0.020
 REMARK
                   BOND LENGTHS OTHERS
 REMARK
             3
                  BOND LENGTHS OTHERS

(A): 7134; 0.003; 0.020

BOND ANGLES REFINED ATOMS (DEGREES): 10342; 1.363; 1.979

BOND ANGLES OTHERS (DEGREES): 16577; 0.924; 3.000

TORSION ANGLES, PERIOD 1 (DEGREES): 898; 5.477; 5.000

CHIRAL-CENTER RESTRAINTS (A**3): 1164; 0.083; 0.200
             3
 REMARK
 REMARK
  REMARK
 REMARK
              3
                                                                (A): 8318; 0.005; 0.020
                 GENERAL PLANES REFINED ATOMS
GENERAL PLANES OTHERS
  REMARK
                                                                 (A): 1612; 0.004; 0.020
  REMARK

      GENERAL PLANES OTHERS
      (A): 1612; 0.004; 0.020

      NON-BONDED CONTACTS REFINED ATOMS
      (A): 1763; 0.203; 0.200

      NON-BONDED CONTACTS OTHERS
      (A): 8183; 0.216; 0.200

      NON-BONDED TORSION OTHERS
      (A): 4673; 0.086; 0.200

      H-BOND (X...Y) REFINED ATOMS
      (A): 186; 0.209; 0.200

      SYMMETRY VDW REFINED ATOMS
      (A): 22; 0.174; 0.200

      SYMMETRY VDW OTHERS
      (A): 98; 0.237; 0.200

      SYMMETRY H-BOND REFINED ATOMS
      (A): 8; 0.142; 0.200

  REMARK
  REMARK
              3
  REMARK
              3
              3
  REMARK
              3
  REMARK
  REMARK
              3 SYMMETRY H-BOND REFINED ATOMS
  REMARK
```

```
REMARK
             ISOTROPIC THERMAL FACTOR RESTRAINTS.
REMARK
                                                        COUNT
                                                                 RMS
                                                                        WEIGHT
              MAIN-CHAIN BOND REFINED ATOMS (A**2):
REMARK
          3
                                                         4554 ; 0.534 ; 1.500
REMARK
              MAIN-CHAIN ANGLE REFINED ATOMS (A**2):
                                                        7368 ; 1.039 ; 2.000
REMARK
              SIDE-CHAIN BOND REFINED ATOMS
                                               (A**2):
                                                         3098 ; 1.749 ; 3.000
              SIDE-CHAIN ANGLE REFINED ATOMS (A**2):
REMARK
                                                         2974 ; 2.997 ; 4.500
REMARK
          3
             NCS RESTRAINTS STATISTICS
REMARK
          3
REMARK
          3
             NUMBER OF NCS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
             TLS DETAILS
REMARK
          3
              NUMBER OF TLS GROUPS : NULL
REMARK
          3
REMARK
          3
REMARK
          3
             BULK SOLVENT MODELLING.
REMARK
          3
              METHOD USED : BABINET MODEL WITH MASK
REMARK
          3
              PARAMETERS FOR MASK CALCULATION
REMARK
          3
              .VDW PROBE RADIUS
                                  :
                                      1.40
REMARK
          3
              ION PROBE RADIUS
                                      0.80
REMARK
          3
              SHRINKAGE RADIUS
                                      0.80
REMARK
          3
             OTHER REFINEMENT REMARKS:
REMARK
          3
             HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK
REMARK
LINK
                  SER A 242
                                                  PRO A 247
                                                                             .gap
LINK
                  PRO A 253
                                                  ALA A 259
                                                                             gap
LINK
                  TRP C 252
                                                  ARG C 264
                                                                             gap
LINK
                  SER D 244
                                                  LYS D 248
                                                                             gap
LINK
                  LEU D 254
                                                  ALA D 263
                                                                             gap
LINK
                  LEU D 444.
                                                  LYS D 448
                                                                             gap
CRYST1
                   98.929 175.815
         58.717
                                     90.00
                                             90.00
                                                    90.00 P 21 21 21
SCALE1
             0.017031
                      0.000000 0.000000
                                                   0.00000
SCALE2
             0.000000 0.010108 0.000000
                                                   0.00000
SCALE3
             0.000000
                      0.000000
                                 0.005688
                                                   0.00000
MOTA
             N
                  LEU A 220
                                  25.060
                                          40.930
                                                           1.00 15.13
                                                   59.913
ATOM
          3
                  LEU A 220
             CA
                                  26.289
                                          40.159
                                                   60.353
                                                           1.00 15.45
ATOM
          5
             CB
                  LEU A 220
                                  27.291
                                          39.950
                                                   59.207
                                                           1.00 15.67
                                                                                  C
ATOM
          8
                  LEU A 220
             CG
                                  27.116
                                          38.849
                                                   58.140
                                                           1.00 17.66
                                                                                  C
ATOM
         10
             CD1 LEU A 220
                                  28.185
                                          38.981
                                                   57.007
                                                           1.00 17.73
                                                                                  C
ATOM
         14
             CD2 LEU A 220
                                  27.141
                                          37.466
                                                   58.708
                                                           1.00 17.30
                                                                                  C
ATOM
         18
             С
                  LEU A 220
                                  26.986
                                          40.905
                                                   61.486
                                                           1.00 14.86
                                                                                  C
MOTA
         19
             0
                  LEU A 220
                                          42.061
                                  27.349
                                                   61.313
                                                           1.00 13.74
                                                                                  0
ATOM
                  THR A 221
         22
             N
                                  27.168
                                          40.237
                                                           1.00 14.79
                                                   62.630
                                                                                  N
MOTA
         24
             CA
                  THR A 221
                                  27.969
                                          40.775
                                                   63:735
                                                           1.00 15.28
                                                                                  С
MOTA
         26
             CB
                  THR A 221
                                  27.770
                                          39.961
                                                   65.068
                                                           1.00 14.97
                                                                                  C
MOTA
         28
             OG1 THR A 221
                                  28.449
                                          38.717
                                                   64.998
                                                           1.00 15.18 .
                                                                                  0
             CG2 THR A 221
MOTA
         30
                                  26.346
                                          39.558
                                                           1.00 16.01
                                                   65.290
MOTA
         34
             С
                  THR A 221
                                  29.479
                                          40.828
                                                   63.378
                                                           1.00 15.09
                                                                                  C
ATOM
         35
             0
                  THR A 221
                                  29.945
                                          40.137
                                                   62.487
                                                           1.00 14.81
                                                                                  0
ATOM
         36
                  ALA A 222
             N
                                  30.220
                                          41.648
                                                   64.105
                                                           1.00 15.21
                                                                                  N
MOTA
         38
             CA
                 ALA A 222
                                  31.673
                                          41.759
                                                   63.960
                                                           1.00 15.24
MOTA
         40
             CB
                  ALA A 222
                                  32.183
                                          42.803
                                                   64.908
                                                           1.00 15.12
                                                                                  C
MOTA
         44
             С
                  ALA A 222
                                  32.421
                                                           1.00 15.76
                                          40.431
                                                   64.177
                                                                                  C
MOTA
         45
             0
                  ALA A 222
                                  33.417
                                          40.152
                                                   63.507
                                                           1.00 16.04
                                                                                . 0
MOTA
         46
             N
                  ALA A 223
                                  31.952
                                          39.609
                                                           1.00 15.81
                                                   65.108
                                                                                  N
ATOM
         48
             CA
                 ALA A 223
                                  32.576
                                          38.301
                                                   65.341
                                                           1.00 15.78
                                                                                  C
```

ATOM	50	CB	ALA A	A 223	31.954	37.600	66.563	1.00 15.45	C
ATOM	54	С	ALA A	A 223	32.422	37.402	64.114	1.00 16.06	С
ATOM	55			A 223	33.327	36.657	63.773	1.00 16.18	Ö
	56			A 224	31.243		63.507		
ATOM						37.424		1.00 15.96	Ŋ
MOTA	58			A 224	30.985	36.638	62.309	1.00 16.40	С
ATOM	60			A 224	29.479	36.583	61.976	1.00 16.76	С
MOTA	63	CG	GLN A	A 224	28.626	35.831	62.969	1.00 16.46	С
ATOM	66	CD		A 224	27.129	35.920	62.618	1.00 17.67	Č
ATOM	67			A 224	26.636	36.996	62.252	1.00 16.55	0
ATOM	68	NE2		A 224	26.411	34.785	62.731	1.00 14.22	N
MOTA	71	С	GLN I	A 224	31.741	37.181	61.106	1.00 15.81	C
ATOM	72	0	GLN A	A 224	32.261	36.418	60.344	1.00 15.71	Ō
ATOM	73	N		A 225	31.816	38.490	60.933	1.00 16.23	Ŋ
MOTA	75	CA		A 225	32.632	39.039	59.846	1.00 17.17	C
MOTA	77	CB		A 225	32.440	40.554	59.707	1.00 17.63	C
ATOM	80	CG	GLU 2	A 225	31.152	40.907	58.966	1.00 21.74	С
ATOM	83	CD	GLU	A 225	31.003	42.396	58.650	1.00 27.29	С
ATOM	84			A 225	32.021	42.978	58.212	1.00 32.71	Ö
ATOM	85			A 225	29.883	42.995	58.837	1.00 28.94	0
ATOM	86	С		A 225	34.116	38.668 ·		1.00 16.92	.C
ATOM	87	0		A 225	34.793	38.247	59.108	1.00 15.82	Ó
ATOM ·	88	N	LEU .	A 226	34.604	38.786	61.279	1.00 17.48	N
ATOM	90	CA		A 226	35.961	38.343	61.622	1.00 17.76	Ċ
ATOM	92	CB		A 226	36.204	38.469	63.124	1.00 17.70	Č
									2
ATOM	95	CG		A 226	37.549	37.979	63.657	1.00 17.25	С
MOTA	97	CD1	LEU	A 226	38.661	38.747	63.038	1.00 17.37	С
ATOM	101	CD2	LEU	A 226	37.599	38.118	65.172	1.00 19.01	· C
ATOM	105	С	LEU	A 226	36.238	36.910	61.164	1.00 18.47	С
ATOM	106	Õ		A 226	37.164	36.666	60.408	1.00 17.08	Ö
ATOM	107	N		A 227	35.391	35.991	61.610	1.00 19.43	Ŋ
ATOM	109	CA		A 227	35.537	34.586	61.306	1.00 21.31	С
MOTA	111	CB	MET	A 227	34.540	33.752	62.145	1.00 22.11	С
ATOM	114	CG	MET	A 227	33.506	32.925	61.415	1.00 28.34	С
ATOM	117	SD		A 227		31.905	62.531	1.00 38.91	s
ATOM	118	CE		A 227	32.594	32.703	64.096	1.00 37.78	C
ATOM	122	C		A 227	35.471	34.293	59.792	1.00 20.86	C
MOTA	123	0		A 227	36.271	33.518	59.281	1.00 20.78	0
MOTA	124	N	ILE	A 228	34.561	34.928	59.069	1.00 20.14	N
ATOM	126	CA	ILE	A 228	34.417	34.632	57.652	1.00 19.44	C
ATOM	128	CB		A 228	33.183	35.310	57.083	1.00 19.42	Č
ATOM	130			A 228	31.921	34.621	57.618	1.00 19.46	č
									2
ATOM	133			A 228	30.696		57.670	1.00 19.93	С
ATOM	137			A 228	33.225	35.310	55.549	1.00 19.80	С
MOTA	141	С	ILE	A 228	35.663		56.928	1.00 19.44	С
ATOM	142	0	ILE	A 228	36.234	34.375	56.131	1.00 18.34	0
ATOM	143	N	GT.N	A 229	36.078	36.332	57.238	1.00 19.45	N
ATOM	145	CA		A 229	37.226		56.618	1.00 19.60	Č
									C
ATOM	147	CB		A 229	37.392		57.120	1.00 19.49	C
ATOM	150	CG		A 229	36.403		56.506	1.00 20.13	С
MOTA	153	CD	GLN	A 229	36.463	40.823	57.104	1.00 24.05	C
ATOM	154	OE1	GLN	A 229	35.688	41.697	56.683	1.00 25.94	0
ATOM	155			A 229	37.375		58.057	1.00 21.74	N
	158				38.489		56.869	1.00 20.06	
ATOM		C		A 229					C
ATOM	159	0		A 229	39.393		56.025	1.00 21.36	0
ATOM	160	N		A 230	38.562		58.037	1.00 20.08	N
MOTA	162	CA	GLN	A 230	39.694	34.722	58.456	1.00 20.38	C
ATOM	164	CB		A 230	39.474	34.252	59.910	1.00 21.01	С
MOTA	167	CG		A 230	40.644		60.547	1.00 22.28	Č
MOTA	170	CD		A 230			60.826	1.00 23.50	Ċ
ATOM	171			A 230			60.575	1.00 27.54	0
MOTA	1-1-2-	NE2	—СЪN-	_A_230	42.934	33.742	61.355	1.00 24.11	N

ATOM	175	С	GLN .	Α	230	39.82	5	33.504	57.541	1.00	20.37		С
ATOM	176	ŏ	GLN .			40.90		33.189	57.052	1.00			ŏ
ATOM	177		LEU			38.71		32.825	57.332	1.00			N
									56.406	1.00			
MOTA	179		LEU			38.64		31.704					C
MOTA	181				231 ·	37.24		31.055	56.426	1.00			С
MOTA	184	CG	LEU			36.65		30.604	57.755	1.00			С
ATOM	186	CD1	LEU	Α	231	35.25	9	30.038	57.502	1.00	19.61		С
ATOM	190	CD2	LEU	Α	231	37.53	2	29.608	58.408	1.00	17.58	•	C
ATOM	194	С	LEU	Α	231	38.98	1	32.098	54.965	1.00	18.07		С
ATOM	195	0	LEU			39.73		31.404	54.303		19.06		Ō
ATOM	196	N	VAL			38.40		33.171	54.471		16.56		N
		CA	VAL			38.65		33.594	53.111		16.52		Ĉ
ATOM	198					30.03							
ATOM	200	CB	VAL			37.79		34.826	52.744		16.05		C
MOTA	202		VAL			38.27		35.487	51.440	1.00			С
MOTA	206	CG2	VAL			36.36		34.416	52.610		15.09		C
MOTA	210	С	VAL	Α	232 ·	40.16	1	33.904	52.906		17.56		С
MOTA	211	0	VAL	Α	232	40.76	0	33.501	51.895	1.00	17.08		0
ATOM	212	N	ALA	Α	233	40.75	3	34.635	53.853	1.00	18.36		N
ATOM	214	CA	ALA			42.15	7	35.053	53.738	1.00	19.26		C .
ATOM	216	CB	ALA			42.46		36.197	54.723		18.99		·C
ATOM	220	c	ALA			43.10		33.877	53.958.		20.32		c
	221	Ö	ALA			44.18		33.833	53.399		19.59		0.
ATOM			ALA					32.913	54.764		22.20		
ATOM	222	N				42.68							N
MOTA	224	CA	ALA			43.47		31.728	55.028		23.33		C
MOTA	226	CB	ALA			42.85		30.940	56.122		23.33		C
ATOM	230	С	ALA			43.52		30.910	53.763		24.99		С
MOTA	231	0	ALA			44.54	0	30.367	53.402		24.97		0
ATOM	232	N	GLN	A.	235	42.38	6	30.841	53.087	1.00	26.96		N
ATOM	234	CA	GLN	Α	235	42.23	7	30.049	51.885	1.00	28.40		С
ATOM	236	CB	GLN	Α	235	40.75	1	30.006	51.494	1.00	28.71		С
ATOM	239	CG	GLN	Α	235	40.45	1	29.293	50.198	1.00	31.32		С
ATOM	242	CD	GLN			39.27	5	28.371	50.317	1.00	34.64		С
ATOM	243	OE1				38.14		28.830	50.488		37.17		0
ATOM	244		GLN			39.53		27.061	50.238		34.51		·N
ATOM	247	C	GLN			43.11		30.603	50.775		28.96		C
ATOM	248	ŏ	GLN			43.80		29.856	50.112		29.36		ŏ
ATOM	249	N	LEU			43.12		31.915	50.619		30.11		N
ATOM	251	CA	LEU			43.96		32.586	49.638		31.34		C
			LEU			43.50		34.041	49.522		31.53		Ċ
ATOM	253	CB									33.04		2
ATOM	256	CG	LEU			44.04		34.966	48.423	1.00			C
ATOM	258		LEU			44.64		34.248	47.195		34.47		C
ATOM	262		LEU			42.89		35.882	47.971		34.38		C
MOTA	266	. C	LEU			45.48		32.526	49.948		32.20		C
ATOM	267	0	LEU	A	236	46.29		32.434	49.037		31.58		0
ATOM	268	N	GLN			45.86		32.576	51.218		33.32		N
MOTA	270	CA	GLN	Α	237	47.28	33	32.480	51.567	1.00	34.44		С
ATOM	272	CB	GLN	Α	237	47.55	52	33.065	52.967	1.00	34.50	•	С
ATOM	275	CG	GLN	A	237	49.02	27	33.026	53.460	1.00	35.10		С
ATOM	278	CD	GLN	Α	237	50.04	10	33.693	52.509	1.00	36.63		С
MOTA	279		GLN	Α	237	49.79	91	34.772	51.957	1.00	36.48		0
MOTA	280	NE2				51.19	92	33.048	52.335		36.81		N
ATOM	283	C			237	47.78		31.035	51.423		35.77		C
ATOM	284	ŏ			237	48.95		30.838	51.129		35.62		ŏ
ATOM	285	N			238	46.91		30.034	51.597		37.59		N
	287				238	47.30		28.615	51.438		39.46		C
ATOM		CA										•	
ATOM	289	CB			238	46.23		27.649	51.999		39.59		C
ATOM	292	SG			238	46.18		27.601	53.804		40.56		S
MOTA	293	C			238	47.51		28.289	49.973		40.75		С
ATOM	294	0			238	48.40		27.518	49.614		41.33		0
ATOM	295	N			239	46.68		28.890	49.141		42.10		N
MOTA	297	CA	ASN	Α	239	46.77	76	28.758	47.709	1.00	43.09		С

ATOM	299	CB	ASN	A	239	45.498	29.322	47.095	1 00	42 22		
ATOM	302	CG			239	45.427	29.097	45.608		43.37		C
ATOM	303	OD1	ASN			45.300	27.948	45.146		45.64		C
ATOM	304		ASN			45.513	30.188	44.836		48.37		0
ATOM	307	С			239	48.016	29.479	47.151		43.48		N
MOTA	308	0	ASN	A	239	48.809	28.885	46.422				C
ATOM	309	N			240	48.177	30.748	47.520		43.67		0
MOTA	311	CA			240	49.254	31.612	47.027		43.94		N
ATOM	313	CB	LYS	Α	240	49.130	33.007	47.666		44.29		C
ATOM	316	CG			240	50.205	34.017	47.283		45.01		C
MOTA	319	CD	LYS	Α	240	51.068	34.463	48.497	1.00	45.64		C
MOTA	322	CE			240	52.528	34.788	48.123		45.21		C
ATOM	325	NZ	LYS	Α	240	52.900	36.182	48.506		44.45		C
MOTA	329	С			240	50.638	31.015	47.284	1 00	44.77		N
ATOM	330	0	LYS	A	240	51.494	31.006	46.389	1 00	44.94		C
ATOM	331	N	ARG			50.853	30.484	48.484		45.29		0
ATOM	333	CA	ARG			52.161	29.936	48.844		45.73		N C
ATOM	335	CB	ARG			52.324	29.860	50.375	1.00	45.60		C
ATOM	338	CG	ARG			51.814	28.620	51.057		45.93		C
MOTA	341	CD	ARG	A	241	51.894	28.707	52.573	1.00	45.89		C
ATOM	344	NE	ARG			53.247	28.478	53.068	1.00	45.29		И
ATOM	346	CZ	ARG	A	241	53.574	27.711	54.112		45.70	•	Č
ATOM	347	NH1	ARG	A	241	52.652	27.064	54.823		45.14		N
ATOM	350		ARG	Α	241	54.853	27.593	54.452		46.29		N
ATOM	353	C	ARG			52.503	28.602	48.134		46.13		C
ATOM ATOM	354	0	ARG			53.655	28.377	47.773		46.44		ŏ
ATOM	355	N	SER			51.511	27.748	47.899		46.59		N
ATOM	357	CA.				51.743	26.466	47.212		46.88		C
ATOM	359 362	CB	SER			50.646	25.472	47.596	1.00	46.75		Č
ATOM	364	OG C	SER	A	242	50.717	25.193	48.986		47.56		Ō
ATOM	365	0	SER			51.857	26.576	45.674		46.93		C
ATOM	366	N	SER			51.601	27.632	45.077	1.00	46.82		0
ATOM	367	CA	PRO			54.724	22.837	43.959		33.07		N
ATOM	369	CB	PRO PRO			56.172	22.670	43.748	1.00	33.14		С
ATOM	372	CG	PRO			56.700	22.242	45.132		33.12		С
ATOM	375	CD	PRO			55.471 54.382	22.096	46.032	1.00	33.34		С
ATOM	378	C	PRO			56.500	22.917	45.388		33.19		С
ATOM	379	ō	PRO			55.578	21.607	42.698		32.82		С
ATOM	380	N	LYS			57.796	20.966 21.464	42.176	1.00	33.05		0
ATOM	382	CA	LYS	A	248	58.371	20.452	42.405		32.25		N
ATOM	384	CB	LYS			59.853	20.133	41.487 41.830		31.95		С
MOTA	387	CG	LYS			60.544	20.153	42.964		32.14		C
MOTA	390	CD	LYS			59.958	20.695			33.20		C
MOTA	393	CE	LYS .			61.060	20.551	45.479		34.19 35.05		C
ATOM	396	NZ	LYS .	A	248	61.959	21.762	45.631		35.51		C
ATOM	400	C	LYS .	Α	248	57.594	19.135	41.431		31.29		N
ATOM	401		LYS 2			57.233	18.584	42.470		31.80		С
ATOM	402		VAL :			57.362	18.624	40.222	1.00	30.21		0
ATOM	404		VAL :			56.507	17.444	40.034		29.34		N
MOTA	406	CB	VAL 2	A :	249	55.043	17.844	39.690		29.36		C
ATOM	408	CG1	VAL 2	A :	249	54.175	17.827	40.936		28.98		C
ATOM	412		VAL A			54.983	19.217	39.012		29.91		C
ATOM	416		VAL A			57.013	16.505	38.944		28.28		C
ATOM	417	0	VAL A	Α.	249	57.743	16.920	38.067		28.23		Ö
ATOM	418		THR A			56.601	15.242	39.000	1.00	27.22		N
ATOM	420		THR A			56.939	14.280	37.960	1.00	26.62		Ĉ
ATOM ATOM	422	CB	THR A	4	250	56.376	12.874	38.282	1.00	26.66		č
ATOM	424 426	CCS	THR A	4	250	56.952	12.373	39.496	1.00	26.45		Ö
ATOM	426		THR A			56.790	11.864	37.223	1.00	25.61		Č
	130		THR A	1 4	23U	56.327	14.775	36.656	1.00	26.23		С
							· · · · · · · · · · · · · · · · · · ·	·				

ATOM	431	0	THR .	A	250	55.129	15.061	36.626	1.00	25.74		. 0
ATOM	432	N	PRO .	A	251	57.140	14.913	35.602		25.92		N
ATOM	433	CA	PRO .	Α	251	56.645	15.329	34.276		25.62		· Ĉ
ATOM	435	CB	PRO .	Α	251	57.875	15.215	33.373		25.90		, · · č
ATOM	438	CG	PRO .	Α	251	59.057	15.249	34.281		26.42		Č
ATOM '	441	CD	PRO	A	251	58.606	14.750	35.618		26.02	•	č
ATOM	444	С	PRO			55.520	14.462	33.697		25.11		·č
ATOM	445	0	PRO			55.559	13.224	33.769		25.06		Õ
ATOM		. N	TRP			54.517	15.146	33.148		24.35		Ņ
ATOM	448	CA	TRP			53.417	14.522	32.429		23.64		C
ATOM	450	СВ	TRP			52.293	15.552	32.276		23.52		. 0
MOTA	453	CG	TRP			51.105	15.050	31.558		23.17		. c
ATOM	454		TRP			50.777	15.287	30.258		22.55		Č
ATOM	456		TRP			49.596	14.657	29.951		23.51	•	Ň
ATOM	458		TRP			49.138	13.997	31.062		22.59		c
ATOM	459		TRP			50.069	14.223	32.093		22.56		č
ATOM	460		TRP			49.826	13.655	33.348		22.89	•	Č.
ATOM	462		TRP			48.694	12.888	33.523		22.68		č
ATOM .	464		TRP			47.794	12.675	32.470		22.15		Č
ATOM	466	CZ2	TRP			47.998	13.221	31.239		21.90	•	Č
ATOM	468	C	TRP			53.938	14.085	31.054		22.99		c
ATOM	469	0	TRP			54.552	14.888	30.366		22.61		ő
ATOM	470	N	PRO			53.712	12.832	30.655		22.60		N
MOTA	471	CA	PRO			54.294	12.306	29.406		22.65		C
ATOM	473	CB	PRO			54.162	10.786	29.569		22.52	•	č
ATOM	476	CG	PRO			52.959	10.615	30.439		22.86		c
ATOM	479	CD	PRO			52.896	11.821	31.350		22.50		C
ATOM	482	С	PRO			53.567	12.775	28.143		22.39		Č
ATOM	483	0	PRO			52.382	12.466	28.027		22.25		ŏ
ATOM	484	N	ALA			49.422	3.445	24.159		31.79		N
ATOM	486	CA			259	49.766	3.864	25.510		31.96		C
ATOM	488	CB	ALA			48.535	4.456	26.212		31.97		č
ATOM	492	С	ALA			50.350	2.701	26.333		31.93		C
ATOM	493	0	ALA			49.638	1.749	26.675		32.13		ŏ
ATOM	494	N	ALA			51.640	2.801	26.662		31.62		N
ATOM	496	CA	ALA			52.345	1.774	27.434		31.36		Ċ
ATOM	498	CB	ALA			53.865	1.966	27.289		31.43		č
ATOM	502	С	ALA			51.947	1.741			31.15		č
ATOM	503	0	ALA			51.163	2.575	29.397		30.98		ŏ
ATOM	504	N	ALA	Α	261	52.501	0.761	29.644		30.82	•	N
ATOM	506	CA	ALA			52.275	0.590	31.086		30.41		Ċ
ATOM	508	CB	ALA	Α	261	52.496	-0.869	31.499		30.46		č
ATOM	512	С	ALA	A	261	53.166	1.517	31.925		30.11		Č
ATOM	513	0	ALA	Α	261	52.736	1.981	32.996		29.75		ō
ATOM	514	N	ASP	Α	262	54.399	1.760	31.451		29.31		N
ATOM	516	CA	ASP	Α	262	55.285	2.780	.32.038		28.85		C
ATOM	518	CB	ASP	Α	262	56.591	2.920	31.242		28.92		Ċ
ATOM .	521	CG	ASP	A	262	57.601	1.814	31.539		29.74		C
MOTA	522	OD1	ASP	Α	262	57.785	1.456	32.726		30.32		Ō
ATOM	523	OD2	ASP	A	262	58.271	1.260	30.633		29.19	•	ō
ATOM ·	524	С	ASP	Α	262	54.600	4.156	32.073		28.24	•	. C
ATOM	525	0	ASP'	A	262	54.760	4.915	33.035		27.58		O
ATOM .	526	N	ALA	Α	263	53.852	4.460	31.010	1.00	27.62		N
MOTA	528	CA	ALA			53.199	5.757	30.842		27.34		· C
ATOM	530	CB	ALA			52.822	5.971	29.392		27.27		Ċ
MOTA	534	C	ALA			51.969	5.921	31.736		27.01		C
ATOM	535	0	ALA			51.722	7.012	32.239	1.00	26.97		ō
ATOM	536	N	ARG	A	264	51.199	4.846	31.910		26.59		N
MOTA	538	CA	ARG	A	264	50.094	4.819	32.875		26.11		C
ATOM	540	CB	ARG	A	264	49.450	3.409	32.930		26.56		С
ATOM	543	CG	ARG	A	264	47.907	3.344	33.034		27.65		. C

ATOM	546	CD	ARG .	A 26	47.294	1.976	32.598	1 00 30	1 /	~
ATOM	549	NE	ARG .					1.00 30.		С
						2.120	31.602	1.00 32.		N
ATOM	551	CZ	ARG .			2.012	31.846	1.00 33.		С
MOTA	552		ARG .			1.722	33.059	1.00 33.	.09	N
MOTA	555		ARG .	A 26	44.022	2.186	30.852	1.00 34.	.09	N
MOTA	558	С	ARG .	A 26	1 50.657	5.241	34.246	1.00 25.	.26	С
ATOM	559	0	ARG .	A 26	50.286	6.280	34.778	1.00 24.		ŏ
ATOM	560	N	GLN .			4.443	34.771	1.00 24.		N
ATOM	562	CA	GLN			4.693	36.051	1.00 23.		
ATOM	564	CB	GLN .			3.650	36.289			C
ATOM	567	CG	GLN			2.204		1.00 23.		C
							36.554	1.00 24.		С
ATOM	570	CD	GLN .			1.057	36.251	1.00 27.		C
ATOM	571		GLN .			-0.090	36.619	1.00 29.		0
ATOM	572		GLN .	A 26	54.994	1.360	35.578	1.00 27.		N
MOTA	575	C	GLN			6.108	36.124	1.00 22.	. 07	С
MOTA	576	Ο.	GLN .			6.716	37.193	1.00 22.	. 21	0
MOTA	577	N	GLN .	A 26	53.265	6.633	34.986	1.00 20.	. 33	N
ATOM	579	CA	GLN	A 26	5 53.733	8.008	34.896	1.00 19.	. 32	C
ATOM	581	CB	GLN .	A 26	54.221	8.312	33.489	1.00 19.	.42	C
ATOM	584	CG	GLN	A 26	55.094	9.506	33.429	1.00 20.		. C
ATOM	587	CD	GLN	A 26		9.151	33.837	1.00 21.		C
ATOM	588		GLN			8.905	35.019	1.00 23.		ŏ
ATOM	589		GLN			9.085	32.875	1.00 19.		N
ATOM	592	C	GLN			9.016	35.225	1.00 18.		
ATOM	593	ŏ	GLN			9.827	36.122	1.00 17.		C
ATOM	594	N	ARG			8.972				0
ATOM	596	CA	ARG				34.460	1.00 16.		N
ATOM						9.917	34.608	1.00 16.		C
	598	CB	ARG			9.619	33.611	1.00 16.		C
ATOM	601	CG	ARG			9.852	32.147	1.00 17.		С
ATOM	604	CD	ARG			9.650	31.207	1.00 18.		С
ATOM	607	NE	ARG			9.329	29.818	1.00 18.		N
ATOM	609	CZ	ARG			8.128	29.373	1.00 18.	.73	С
ATOM	610		ARG			7.094	30.196	1.00 18.	. 38	N
MOTA	613	NH2	ARG	A 26	7 49.519	7.964	28.084	1.00 18.	. 47	N
ATOM	616	С	ARG	A 26	7 49.953	9.820	36.031	1.00 15.	. 55	С
ATOM	617	0	ARG	A 26	7 49.721	10.824	36.677	1.00 15.		Ö
ATOM	618	N	PHE			8.595	36.511	1.00 14.		N
ATOM	620	CA	PHE			8.313	37.844	1.00 14.		Ċ
ATOM	622	CB	PHE			6.802	38.042	1.00 14		Č
ATOM	625	CG	PHE			6.431	39.409	1.00 15.		Ç
ATOM	626		PHE			6.735	39.781	1.00 16.		Ċ
ATOM	628		PHE			6.418	41.029	1.00 15.		<u> </u>
ATOM	630	CZ	PHE			5.803	41.943	1.00 15.		C
ATOM	632		PHE			5.517				C
ATOM	634		PHE			5.827	41.614	1.00 16.		C
ATOM	636						40.342	1.00 15.		C
		C	PHE			8.866	38.915	1.00 14.		C
MOTA	637	0	PHE			9.415	39.901	1.00 14.		0
ATOM	638	N	ALA			8.708	38.740	1.00 13.		N
MOTA	640	CA	ALA			9.278	39.671	1.00 13.		С
MOTA	642	CB	ALA			8.923	39.272	1.00 13.	. 84	С
MOTA	646	С	ALA			10.784	39.692	1.00 13.	. 92	C
ATOM	647	0	ALA	A 26	9 52.425	11.408	40.728	1.00 13.	. 48	0
ATOM	648	N	HIS	A 27	52.065	11.353	38.531	1.00 14.	.53	N
ATOM	650	CA	HIS	A 27	51.950	12.792	38.371	1.00 15.		C
MOTA	652	CB	HIS			13.132	36.863	1.00 15		Č
ATOM	655	CG	HIS			14.568	36.586	1.00 16		Č
ATOM	656		HIS			15.544	36.607	1.00 17		N
ATOM	658		HIS			16.717	36.349	1.00 17		C
ATOM	660		HIS			16.536	36.161	1.00 17		
ATOM	662		HIS			15.201				N
ATOM	664	CDZ	HIS			13.201	36.309	1.00 17.		C
	- 504	<u> </u>	1113	<u>a 41</u>	30.787	13.333	39.190	1.00 15	. 34	С

ATOM	665	0	HIS A 270		0.933	14.279	20.022		1	
ATOM	666	N·.			9.607	12.691	39.933 39.094		15.27	
ATOM	668	CA	PHE A 271		8.375	13.154	39.732		15.80 16.36	
MOTA	670°	CB	PHE A 271		7.198	12.370	39.184		16.83	
MOTA	673	CG	PHE A 271		6.637	12.890	37.892		18.89	
ATOM	674	CD1			6.672	14.235	37.568		20.17	
ATOM	676	CE1		4	6.117	14.690	36.381		21.37	
ATOM	678	CZ	PHE A 271	. 4	5.499	13.811	35.518		21.87	
ATOM	680		PHE A 271		5.452	12.465	35.832		21.99	•
ATOM	682		PHE A 271		6.018	12.011	37.012		21.37	
ATOM ATOM	684	C .		4	8.392	12.907	41.228	1.00	16.44	
ATOM	685 686	O N	PHE A 271	4	7.848	13.665	42.007		16.74	
ATOM	688	N CA	THR A 272 THR A 272	4	8.979	11.786	41.604		16.45	
ATOM	690	CB	THR A 272		9.315	11.465	42.984		16.20	
ATOM	692	OG1	THR A 272		0.091 9.502	10.095	42.987		16.35	•
ATOM	694	CG2	THR A 272		1.555	9.215 10.205	43.930		18.82	
MOTA	698	C	THR A 272		0.109	12.604	43.424 43.635		17.10	
MOTA	699	0	THR A 272	4	9.839	12.984	44.768	1.00	15.40	
MOTA	700	N	GLU A 273		1.073	13.165	42.903		15.13	
ATOM	702	CA	GLU A 273		1.881	14.272	43.421	1.00	1/ 00	
MOTA	704	CB	GLU A 273		3.159	14.412	42.607	1.00		
ATOM	707	CG	GLU A 273		4.132	13.250	42.861	1.00		
ATOM	710	CD	GLU A 273		5.249	13.169	41.859	1.00		
ATOM	711	OE1	GLU A 273		5.767	14.231	41.459	1.00		
MOTA MOTA	712	OE2	GLU A 273		5.652	12.039	41.496	1.00	21.55	
ATOM	713 714	С О	GLU A 273		1.098	15.593	43.497	1.00		
ATOM	715	N	GLU A 273 LEU A 274		1.260	16.344	44.447	1.00		•
ATOM	717	CA	LEU A 274		0.218 9.336	15.862	42.535	1.00		
ATOM	719	CB	LEU A 274		8.498	17.031 17.207	42.631	1.00	14.65	•
ATOM	722	CG	LEU A 274		9.284	17.516	41.345 40.068	1.00	14.63	
ATOM	724	CD1	LEU A 274		8.414	17.415	38.840	1.00 1.00	14.28	
MOTA	728	CD2	LEU A 274		9.888	18.887	40.131	1.00		
ATOM	732	С	LEU A 274		8.409	16.917	43.851	1.00		
ATOM	733	0	LEU A 274		8.110	17.909	44.509	1.00		
ATOM	734	N	ALA A 275	4	7.983	15.693	44.149	1.00		
ATOM	736	CA	ALA A 275		7.077	15.424	45.260	1.00		
ATOM ATOM	738	СВ	ALA A 275		6.490	13.991	45.142	1.00		
ATOM	742 743	C	ALA A 275		7.769	15.614	46.599	1.00		
ATOM	744	N O	ALA A 275 ILE A 276		7.163	16.055	47.552	1.00	13.39	
ATOM	746	CA	ILE A 276		9.043	15.296	46.680	1.00	12.15	
ATOM	748	CB	ILE A 276		9.822 1.239	15.584 14.963	47.880	1.00	11.63	
ATOM	750		ILE A 276		1.135	13.464	47.771 48.083	1.00		
ATOM	753	CD1	ILE A 276		2.253	12.660	47.555	1.00		
ATOM	757	CG2	ILE A 276		2.208	15.634	48.723	1.00	10.00	
ATOM	761	С	ILE A 276		9.937	17.077	48.118	1.00	11 95	
ATOM	762	0	ILE A 276		9.870	17.516	49.255	1.00		
ATOM	763	N	ILE A 277		0.176	17.841	47.047	1.00		
ATOM	765	CA	ILE A 277		0.234	19.300	47.133	1.00		
ATOM ATOM	767 760	CB	ILE A 277		0.340	19.980	45.751	1.00	13.51	
ATOM	769 772	CG1 CD1	ILE A 277		1.642	19.656	45.007	1.00		
ATOM	776		ILE A 277 ILE A 277		2.851	19.778	45.806	1.00		
ATOM	780	C	ILE A 277		0.176	21.496	45.919	1.00		
ATOM	781	Õ	ILE A 277		3.933 3.949	19.780	47.767	1.00		
ATOM	782	N	SER A 278		7.807	20.580 19.310	48.693	1.00		
ATOM	784	CA	SER A 278		5.491	19.716	47.246 47.775	1.00		
MOTA	786	CB	SER A 278		5.351	19.118	46.931	1.00		
ATOM	789	OG	SER A 278		1.147	18.996	47.666	1.00		
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	791 792 793 795 797 799 803 807 808 811 813 816 819 820 821 824 825 826	CG2 C O N CA CB CG CD OE1 NE2 C	GLN GLN GLN GLU	AAAAAAAAAAAAAAAA	278 279 279 279 279 279 279 280 280 280 280 280 280 280 280 280	46.319 45.755 46.808 46.679 47.216 47.349 46.281 47.398 46.882 48.576 49.358 50.696 51.648 52.821 52.691 53.968 48.573 47.999	19.312 20.055 18.136 17.690 16.249 15.886 15.239 18.692 19.094 19.131 20.081 20.330 21.199 21.698 21.886 21.885 21.393 21.919 21.901	49.227 50.011 49.594 50.964 51.143 52.625 50.453 51.874 52.900 51.464 52.240 51.561 52.336 51.489 50.276 52.126 52.425 53.509 51.369	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	13.88 14.45 13.99 14.81 14.88 14.84 14.52 15.98 16.77 16.73 17.30 17.11 18.49 20.11 20.62 17.93 17.42 17.16 17.96		соиссссоисссоисси
ATOM	828	CA	GLU			47.150	23.077	51.490	1.00	19.38	•	С
ATOM	830	CB	GLU			46.479	23.404	50.170		19.70		С
ATOM	833	CG	GLU			47.420	23.843	49.093		22.42		C
MOTA	836	CD	GLU			46.660	24.233	47.856		27.65		C
ATOM	837		GLU			46.934	23.643	46.792		30.06		0
ATOM ATOM	838 839 ⁻		GLU GLU			45.782 46.043	25.135 22.888	47.962 52.500		31.96 19.28		0 C
ATOM	840	Ö	GLU			45.854	23.709	53.358		19.20		Ö
ATOM	841	N	ILE			45.307	21.796	52.390		19.77		N
ATOM	843	CA	ILE			44.146	21.576	53.245		19.42		C
ATOM	845	CB	ILE			43.429	20.290	52.816		19.20		Ċ
ATOM	847		ILE			42.746	20.483	51.465		18.34		Ċ
ATOM	850		ILE			42.449	19.148	50.700		17.40		Č
ATOM ·	854		ILE			42.458	19.819	53.876		19.76		С
ATOM	858	С	ILE	Α	282	44.553	21.502	54.711	1.00	20.02		С
MOTA	859	0	ILE			43.876	22.077	55.575		19.86		0
ATOM	860	N	VAL			45.636	20.775	54.990		20.45		N
MOTA	862	CA	VAL			46.130	20.610	56.361		21.08		C
ATOM	864	CB	VAL			47.408	19.701	56.449				C
ATOM	866		VAL			48.047	19.807	57.813		19.55		C
ATOM	870		VAL VAL			47.070	18.227	56.137		21.29	•	C
ATOM ATOM	874 875	C O	VAL			46.480 46.096	21.960 22.243	56.957 58.078		21.88 22.73		0
ATOM	876	N	ASP			47.250	22.754	56.206		21.96		N
MOTA	878	CA	ASP			47.655	24.103	56.577		22.32		Č
ATOM	880	CB	ASP			48.577	24.698	55.479		22.91		č
ATOM	883	CG	ASP			50.020	24.107	55.480		27.11		Ċ
MOTA	884		ASP			50.889	24.703	54.784		30.69		0
ATOM	885	OD2	ASP	Α	284	50.395	23.067	56.106		31.70		0
ATOM	886	С	ASP			46.425	25.030	56.773	1.00	21.69		С
MOTA	887	0	ASP			46.407	25.840	57.660	1.00	21.91		0
MOTA	888	N			285	45.411	24.908	55.932		21.20		N
ATOM	890	CA			285	44.184	25.687	56.068		21.41		С
ATOM	892	CB			285	43.310	25.533	54.809		20.47		C
ATOM ·	895	CG			285	41.915	26.101	54.959		20.10		C
ATOM ATOM	896 898		PHE PHE			41.652 40.362	27.439 27.961	54.699 54.842		20.08		C
ATOM	900	CZ			285	39.340	27.361	55.257		18.38		C
ATOM	902		PHE			39.597	25.818	55.542		20.39		c
ATOM	904		PHE			40.870	25.298	55.384		18.65		Č
ATOM	906	C			285	43.393	25.309	57.350		21.80		č
ATOM	907	ŏ			285	42.930	26.183	58.079		21.00		ő

ATOM	908	N	ALA	Α	286		43.250	24.007	57.599	1.00	22.45		N
MOTA	910	CA ·	ALA	A	286		42.525	23.497	58.759		22.55	•	C
ATOM	912	CB	ALA	Α	286		42.534	22.013	58.751		21.84		Č
ATOM	916	С	ALA	Α	286		43.087	24.021	60.086		23.89		Ċ
ATOM	917	0	ALA	Α	286		42.329	24.439	60.940	1.00	23.39		ō
MOTA	918	N	LYS	A	287		44.410	24.029		.1.00			N
MOTA	920	CA	LYS	Α	287			24.533	61.513		27.03		c
ATOM	922	CB	LYS	Α	287		46.507	24.197	61.565		28.33		Č
ATOM	925	CG	LYS	Α	287		46.819	22.686	61.828		32.10		Č
ATOM	928	CD	LYS				46.778	22.320	63.378		35.99	•	č
ATOM	931	CE ·	LYS				47.553	20.974	63.752		37.37		č
MOTA	934	NZ	LYS					19.675	63.380		36.79		N
ATOM		С	LYS				44.792		61.744		27.29		C
ATOM	939	0	LYS				45.130	26.584			28.49		ŏ ,
ATOM	940	N	GLN				44.221	26.732	60.753		26.39		N .
ATOM	942	CA	GLN			•	43.874	28.147	60.863		25.65		C
ATOM	944	CB	GLN				44.391	28.877	59.638		25.37		C
ATOM	947	CG	GLN				45.840	28.657	59.473		28.98		c
ATOM	950	CD	GLN				46.530	29.881			31.64		Č
ATOM	951		GLN				47.098	30.589	59.911		34.69		٥.
ATOM .	952		GLN				46.469	30.178	57.793		35.01		N
ATOM	955	C	GLN				42.373	28.388	60.978		24.59		C
ATOM	956	ŏ	GLN				41.934	29.528	61.136		23.94	,	0
ATOM	957	Ň	VAL				41.588	27.329	60.840		23.23	•	И
ATOM	959	CA	VAL				40.164	27.437	61.071		22.95		C
ATOM	961	CB	VAL				39.438	26.211	60.571		22.40		.C
ATOM	963		VAL				37.983	26.292	60.952		23.31		C
ATOM	967		VAL				39.612	26.072	59.068		20.88		C
ATOM	971	C	VAL				39.978	27.592	62.575		22.64		C
ATOM	972	<u>o</u> .	VAL				40.404	26.735	63.311		22.81		0
ATOM	973	N	PRO				39.404	28.692	63.051		22.42		N
ATOM	974	CA	PRO				39.137	28.825	64.494		22.62		C
ATOM	976	CB	PRO				38.396	30.150	64.589		22.56		C
ATOM	979	CG	PRO				38.922	30.130	63.436		23.19		c
ATOM	982		PRO				39.017	29.899	62.314		22.20		c
ATOM	985	C			290		38.291	27.676	65.047		22.64		C
ATOM	986	ŏ			290		37.255	27.358	64.468		22.25		Ö
ATOM	987	N	GLY				38.751	27.065	66.134		22.23		N
ATOM	989	CA					38.121	25.879	66.683		23.65		C
ATOM	992	C	GLY				38.995	24.637	66.533		24.02		C
ATOM	993	Ö	GLY				39.035	23.783	67.423		24.52		Ö
ATOM	994	N			292		39.719	24.534	65.426		23.97		N
ATOM	996	CA	PHE				40.445	23.307	65.129		23.94		C
MOTA	998	CB			292		41.023	23.375	63.728		23.45		C
MCTA	1001	CG			292		41.578	22.085	63.250		21.82		C
ATOM	1002		PHE				40.732	21.064	62.828		19.41		C
MOTA	1004		PHE				41.234	19.874	62.391		19.10		Č
ATOM	1006	CZ			292		42.605	19.667	62.357		20.35		c
ATOM	1008		PHE				43.461	20.666	62.779		21.11		c
ATOM	1010		PHE				42.941	21.880	63.218		20.01		c
ATOM	1012	C			292		41.526	22.950	66.161		24.87		c
ATOM	1013	ŏ			292		41.698	21.780	66.516		24.60		0
MOTA	1014	N			293		42.245	23.938	66.674		25.98		И
ATOM	1016	CA			293		43.294	23.640	67.657		26.80		C
ATOM	1018	CB			293		44.482	24.610	67.522		27.55		c
ATOM	1021	CG			293		45.426	24.276	66.332		30.13		C
ATOM	1023		LEU				46.377	25.443	66.010		30.13		C
ATOM	1027				293.		46.245	22.995	66.565		31.46		C
ATOM	1031	C			293		42.763	23.560	69.106		26.18	•	C
ATOM	1032	ŏ			293		43.478	23.152	70.001		25.92		0
ATOM	1032	N			294		41.502	23.132	69.319		25.92		N
				•-7	273		41.002		09.319	1.00	20.93		14

ATOM	1035	CA	GLN A	294	40 015	22 (12	70 500	1 00 0	
ATOM	1037	CB	GLN A		40.815	23.613	70.588	1.00 25.70	C
ATOM	1040	CG	GLN A		39.466	24.344	70.673	1.00 25.93	C
ATOM	1043	CD			39.558	25.872	70.801	1.00 26.59	. <b>C</b>
			GLN A		38.229	26.544	70.525	1.00 28.47	С
MOTA	1044	OE1			38.162	27.566	69.818	1.00 30.90	0
ATOM	1045	NE2			37.161	25.974	71.068	1.00 30.91	N
ATOM	1048	C	GLN A	294	40.548	22.111	70.764	1.00 25.05	C
ATOM	1049	0	GLN A		40.272	21.681	71.865	1.00 24.73	Õ
ATOM	1050	N	LEU A		40.591	21.333	69.673	1.00 24.15	·N
MOTA	1052	CA	LEU A		40.401	19.879	69.717	1.00 23.01	Ċ
ATOM	1054	CB	LEU A		39.927	19.357	68.358	1.00 22.96	č
MOTA	1057	CG	LEU A	295	38.507	19.746	67.927	1.00 24.00	c
ATOM	1059	CD1	LEU A	295	38.202	19.233	66.544	1.00 23.39	c
MOTA	1063	CD2	LEU A	295	37.457	19.227	68.942	1.00 25.45	c
MOTA	1067	С	LEU A	295	41.684	19.149	70.077	1.00 22.31	c
MOTA	1068	0	LEU A		42.779	19.625	69.776	1.00 21.89	
ATOM	1069	N	GLY A		41.540	17.980	70.708	1.00 21.89	0
ATOM	1071	CA	GLY A		42.663	17.104	70.700	1.00 20.64	N.
ATOM	1074	C	GLY A		43.296	16.632	69.690 a		, <u>C</u>
ATOM	1075	ō	GLY A		42.643	16.616	68.628	1.00 20.72	C
ATOM	1076	N	ARG A		44.564	16.256	69.767	1.00 20.45	0
ATOM	1078	CA	ARG A		45.304			1.00 20.79	N
ATOM	1080	CB	ARG A		46.768	15.833	68.585	1.00 21.83	С
ATOM	1083	CG	ARG A		47.742	15.477	68.923	1.00 22.29	С
ATOM	1086	CD	ARG A			15.855	67.793	1.00 26.10	С
ATOM	1089	NE	ARG A		49.251	15.569	68.055	1.00 31.77	С
ATOM	1091	CZ	ARG A		49.943	15.212	66.805	1.00 35.40	N
ATOM	1091	NH1			50.247	13.968	66.402	1.00 39.10	С
ATOM	1095		ARG A	291	49.964	12.893	67.148	1.00 39.38	N
ATOM					50.856	13.796	65.228	1.00 40.91	N
	1098	С	ARG A		44.607	14.665	67.881	1.00 21.67	С
ATOM	1099	0	ARG A		44.577	14.584	66.637	1.00 21.10	0
ATOM	1100	N	GLU A	298	44.025	13.763	68.663	1.00 21.69	N
ATOM	1102	CA	GLU A		43.399	12.583	68.064	1.00 21.70	C
ATOM	1104	CB	GLU A		43.006	11.551	69.120	1.00 22.29	C
ATOM	1107	CG	GLU A		43.859	10.300	69.066	1.00 26.31	C
ATOM	1110	CD	GLU A		45.289	10.530	69.545	1.00 31.15	Ċ
MOTA	1111	OE1	GLU A	298	46.067	11.227	68.844	1.00 34.54	Ō
ATOM	1112				45.642	10.001	70.624	1.00 33.78	0
MOTA	1113	С	GLU A		42.212	12.959	67.179	1.00 20.17	C
	. 1114	0	GLU A		42.075	12.446	66.063	1.00 18.29	Ō
MOTA	1115	N	ASP A		41.376	13.861	67.667	1.00 19.77	N
ATOM	1117	CA	ASP A		40.245	14.346	66.869	1.00 20.44	Ċ
ATOM	1119	CB	ASP A		39.245	15.121	67.722	1.00 20.18	č
ATOM.	1122	CG	ASP A		38.439	14.204	68.619	1.00 21.95	č
ATOM	1123		ASP A		38.605	12.955	68.494	1.00 22.28	Ö
MOTA	1124	OD2	ASP A	299	37.647	14.629	69.493	1.00 24.19	ŏ
ATOM	1125	С	ASP A	299	40.675	15.174	65.677	1.00 20.59	č
MOTA	1126	0	ASP A	299	40.052	15.092	64.635	1.00 21.48	Ö
ATOM	1127	N	GLN A	300	41.753	15.936	65.826	1.00 20.59	N
ATOM	1129	CA	GLN A	300	42.296	16.728	64.743	1.00 20.89	C
ATOM	1131	СВ	GLN A	300	43.520	17.505	65.209	1.00 20.89	
ATOM	1134	CG	GLN A		43.211	18.759	65.984	1.00 20.98	C
ATOM	1137	CD	GLN A		44.471	19.457	66.511	1.00 21.79	C
MOTA	1138	OE1			44.390	20.212	67.468	1.00 24.15	C
ATOM	1139		GLN A	300	45.623	19.205			0
ATOM	1142	C	GLN A	300	42.686	15.836	65.889	1.00 23.70	N
ATOM	1143	ŏ	GLN A		42.343	16.119	63.587	1.00 20.82	C
ATOM	1144	N	ILE A		43.395		62.439	1.00 21.20	0
ATOM	1146	CA	ILE A		43.769	14.753	63.910	1.00 20.32	· N
ATOM	1148	CB	ILE A			13.762	62.935	1.00 19.62	C
_ATOM	1150	_CG1	ILE A	301	44.767	12.748	63.539	1.00 20.10	C
					46.154	13.393	63.642	1.00 19.43	C

ATOM	1153	CD1	LILE	A 301	47.	094 12	653 64 55	2 2 22			
ATOM	1157	CG2	न.ग	A 301			652 64.55		20.19		С
ATOM	1161	C	TITE	A 303				2 1.00	19.73		C
			TIME	A 301		528 13.	081 62.36	9 1.00	19.30	•	
ATOM	1162	0	ILE	A 301	42.	393 12.					. С
ATOM	1163	N		A 302					20.20		. 0
ATOM .									18.41		. N
•				A 302			988 62.70	5 1.00	17.85		
ATOM	1167	CB	ALA	A 302	39.	596 11.			17.00		C
ATOM	1171	С	ALA	A 302	39.	_			17.81		C
ATOM	1172								17.44		C
		_	WITH	A 302				9 1.00	16.93		CON
ATOM	1173	N	LEU	A 303	39.	388 14.	139 62.03		17.37		
ATOM	1175	CA	LEU	A 303	38.						N
ATOM	1177	CB	T.EII	A 303					17.82		. C
ATOM	1180		100	A 303					17.79		C
		CG	TEO	A 303	37.	480 16.	301 63.15	3 1.00	18.21		
ATOM	1182	CD1	LEU	A 303	. 37.	279 17.			17.38	•	C
ATOM	1186	CD2	LEU	A 303	36.				17.38		· C
ATOM	1190	С		A 303					19.92		С
						301 15.	371 59.84	1.00	18.27		С
ATOM	1191	0	PEO	A 303	38.	560 15.			17.83		Č .
ATOM	1192	N	LEU	A 304	40.		198 59.87		17.03	•	0 .
ATOM	1194	.CA	LEU	A 304	41.4	102 15	_	T.00	19.62	•	N
ATOM	1196		TEU	T 204				2 1.00	20.56		C
		CB	TEO	A 304		334 16.0	034 59.00		20.86		. ~
MOTA	1199	CG	LEU	A 304	43.0	51 17.5	515 59.23		22.96		й С С
ATOM .	1201	CD1	LEU	A 304	44.4	80 17.					· C
ATOM	1205	CD3	T.PIT	A 304					24.33		С
ATOM	1209		1150	A 304		45 18.3	325 57.974	1.00	25.50		C
		С	LEU	A 304	41.4	12 14.4	143 57.758	1.00	20.17		Ċ
ATOM	1210	0	LEU	A 304	41.2				20.17	٠.	
ATOM	1211	N	LYS	A 305	41.5				20.16		0
ATOM	1213	CA	TVC	A 305					20.84		N
ATOM			1112	A 303			)34    57.601	. 1.00	21.26		C
	1215	CB	LYS	A 305	41.6	50 10.8	340 58.571	1 00	22.15		č
ATOM	1218	CG	LYS	A 305	42.7				22.13		C
ATOM	1221	. CD	LYS	A 305	43.9				23.68		С
ATOM	1224	CE	TVC	7 305					25.40		C
ATOM				A 305	45.1		.97 58.921	1.00	25.14		Ċ
	. 1227	NZ	LYS	A 305	45.6	48 8.3	320 60.048		25.27		
ATOM	1231	С	LYS	A 305	40.2				23.27		N
ATOM	1232	. 0	T.YC	A 305	40.2				21.35		С
ATOM	1233		777	7 303	40.2			1.00	21.00		0
		N		A 306	39.1		.90 57.456	1.00	20.89		
ATOM	1235	CA	ALA	A 306	37.8	55 12.0			20.64		N
ATOM	1237	CB	ALA	A 306	36.7						С
ATOM	1241	C	ΔT.Δ	A 306					20.73		C
ATOM	1242				37.5				20.23		C
		0	ALA.	A 306	36.9		38 54.794	100	20.34		
ATOM	1243	N	SER .	A 307	38.0	26 14.4					0
ATOM	1245	CA		A 307	37.6				19.59		N
ATOM	1247	CB		A 307					19.91		С
ATOM	1250		OEK .	A 307	37.9			1.00	20.19		C
		OG	SER .	A 307	36.7	68 17.1	82 56.937	1.00	25.77		
MOTA	1252	С	SER .	A 307	38.4	80 15.7			20.77		0
ATOM	1253	0	SER :	A 307	38.0				19.11		C
ATOM	1254	N	TUD :	A 308	20.0				18.68		0
ATOM					39.6			1.00	17.89		N
	1256	CA	THE	A 308	40.6	46 15.5	94 53.122	1.00	17.45		
ATOM	1258	CB	THR I	80E A	41.9				17.43		С
ATOM	1260	OG1	THR :	A 308	42.6			1.00	17.47		С
ATOM	1262	CG2						1.00	15.82		0
			THE A	A 308	42.8		76 52.174	1.00	17.07		Č
ATOM	1266	C	THR A	808 A	40.1	24 15.3		1 00	17.43		
ATOM	1267	0	THR A	80E A	40.1						. С
ATOM .	1268	N	TIP	A 309					17.33		0
ATOM			*****	- 209	39.6	25 14.1		1.00	17.46		N
	1270	CA	TTF: Y	A 309	39.1	53 13.7	84 50.119	1.00	18.16		
ATOM	1272	CB	ILE A	A 309	38.7			1 00	10 15		C
ATOM	1274	CG1	ILE A	300	38.5				18.17		C
MOTA	1277	CD1	TIE	V 300					18.77		C
ATOM		CDT	7112 F	A 309	39.7		91 47.752		21.05		Ċ
	1281		ILE A	4 309	37.5				17.38	•	~
ATOM	1285	C	ILE A	A 309	37.9						С
ATOM	1286	0	TIE Z	A 309					18.04		C
ATOM	1287				37.8			1.00	17.64	•	0
	1201	N	GLU A	4 2TO	37.10	00 14.9	57 50.685	1.00			· N
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ATOM 1299 OEE GLU A 310 32.837 13.285 53.398 1.00 19.29 CC ATOM 1300 C GLU A 310 33.105 13.285 53.398 1.00 19.19 CC ATOM 1301 OG GLU A 310 35.742 17.809 49.125 1.00 20.59 O ATOM 1301 OG GLU A 310 35.742 17.809 49.125 1.00 20.59 O ATOM 1302 N LLE A 311 37.238 17.238 17.825 50.790 1.00 18.33 N ATOM 1306 CB LLE A 311 37.696 19.178 50.504 1.00 17.23 C ATOM 1306 CG LLE A 311 37.238 17.825 50.790 1.00 16.83 C ATOM 1306 CG LLE A 311 37.727 19.715 50.504 1.00 17.23 C ATOM 1315 CG2 LLE A 311 37.727 19.715 52.952 1.00 16.30 C ATOM 1315 CG2 LLE A 311 39.139 21.050 51.306 1.00 17.62 C ATOM 1315 CG2 LLE A 311 39.139 21.050 51.306 1.00 17.62 C ATOM 1312 C LLE A 311 38.413 19.219 49.139 1.00 16.48 C ATOM 1312 C LLE A 311 38.413 19.219 49.139 1.00 16.48 C ATOM 1320 O LLE A 311 38.413 19.219 49.139 1.00 16.06 N ATOM 1321 N MET A 312 39.145 18.166 48.830 1.00 16.06 N ATOM 1322 C MET A 312 41.881 16.692 47.574 1.00 16.26 C ATOM 1322 C MET A 312 41.881 16.692 44.574 1.00 16.66 C ATOM 1331 SD MET A 312 42.969 15.273 47.818 1.00 24.73 S ATOM 1332 C MET A 312 43.078 15.386 46.128 1.00 17.57 C ATOM 1336 C MET A 312 39.145 18.042 46.570 1.00 16.15 N ATOM 1336 C MET A 312 39.145 18.049 46.453 1.00 15.49 C ATOM 1336 C MET A 312 39.137 18.627 45.440 1.00 14.65 N ATOM 1336 C MET A 312 39.137 18.627 45.440 1.00 14.65 N ATOM 1340 CA LEU A 313 35.601 16.308 45.791 1.00 15.59 C ATOM 1347 CC1 LEU A 313 35.601 16.308 45.791 1.00 15.59 C ATOM 1347 CC1 LEU A 313 35.601 17.309 45.585 1.00 15.49 C ATOM 1347 CC1 LEU A 313 35.601 18.404 46.579 1.00 15.59 C ATOM 1356 C LEU A 313 35.601 18.404 46.579 1.00 15.59 C ATOM 1357 N LEU A 314 35.801 19.394 46.579 1.00 15.59 C C ATOM 1357 N LEU A 314 35.801 19.394 46.579 1.00 15.59 C C ATOM 1360 C C LEU A 313 35.601 18.404 46.597 1.00 15.59 C C ATOM 1360 C C LEU A 313 35.601 18.404 46.201 1.00 15.59 C C C ATOM 1360 C C LEU A 313 35.601 18.404 46.201 1.00 15.59 C C C ATOM 1360 C C LEU A 313 35.601 18.404 46.201 1.00 15.59 C C C C C C C C C C C C C C C C C C C		1297									
ATOM 1298 ODE GLU A 310 33.988 14.236 32.937 1.00 26.37 OD ATOM 1299 ODE GLU A 310 32.837 15.275 33.388 1.00 19.22 CD ATOM 1299 ODE GLU A 310 32.837 15.275 33.388 1.00 19.22 CD ATOM 1301 O GLU A 310 36.289 17.244 50.070 1.00 19.22 CD ATOM 1301 O GLU A 310 36.289 17.246 50.070 1.00 19.22 CD ATOM 1302 N LEA 311 37.238 17.825 50.070 1.00 10.01 19.19 CD ATOM 1302 N LEA 311 37.238 17.825 50.50 1.00 10.01 19.33 N ATOM 1306 CB LEA 311 37.238 17.825 50.50 1.00 10.01 19.33 N ATOM 1306 CB LEA 311 37.5769 19.765 52.952 1.00 16.30 C C ATOM 1306 CB LEA 311 38.615 19.765 52.952 1.00 16.82 C ATOM 1306 CG LEA 311 38.615 19.946 54.200 1.00 16.45 C ATOM 1315 CCG LEA 311 38.615 19.946 54.200 10.0 16.45 C ATOM 1315 CD LEA 311 38.415 19.946 54.200 10.0 16.45 C ATOM 1315 CD LEA 311 38.415 19.252 48.830 1.00 16.66 N ATOM 1320 O LEA 311 38.415 19.252 48.830 1.00 16.66 N ATOM 1322 N MET A 312 39.445 18.166 48.830 1.00 16.06 N ATOM 1325 CB MET A 312 39.445 18.166 48.830 1.00 16.06 N ATOM 1325 CB MET A 312 40.895 18.697 47.579 1.00 16.63 C ATOM 1325 CB MET A 312 40.895 15.637 47.574 1.00 16.26 C ATOM 1331 CD LEA 311 38.241 18.669 48.830 1.00 16.66 N ATOM 1332 CB MET A 312 42.995 15.233 47.818 1.00 24.73 S ATOM 1335 CB MET A 312 43.896 15.306 46.128 1.00 19.96 C ATOM 1336 C MET A 312 39.845 18.166 692 48.231 1.00 16.66 N ATOM 1337 C MET A 312 39.845 18.166 692 47.579 1.00 16.26 C ATOM 1336 C MET A 312 39.817 18.627 48.831 1.00 15.49 C ATOM 1337 C MET A 312 39.817 18.627 48.831 10.00 15.63 C ATOM 1337 C MET A 312 39.817 18.627 48.831 10.00 15.63 C ATOM 1337 C MET A 312 39.817 18.627 48.831 10.00 15.69 C ATOM 1337 C MET A 312 39.817 18.627 48.831 10.00 15.49 C ATOM 1345 C MET A 312 39.817 18.627 48.831 10.00 15.49 C ATOM 1345 C MET A 312 39.817 18.627 48.831 10.00 15.59 C ATOM 1345 C MET A 312 39.817 18.627 48.831 10.00 15.59 C ATOM 1345 C MET A 312 39.817 18.627 48.831 10.00 15.59 C ATOM 1345 C MET A 312 39.817 19.827 48.831 10.00 15.59 C ATOM 1345 C MET A 312 39.831 39.90 14.833 10.00 15.59 C ATOM 1345 C MET A 312 39.831 39.90 14.833 10.0		1294									
ATOM 1299 OED GLU A 310 33.388 14.236 52.957 1.00 22.47 C ATOM 1299 OED GLU A 310 32.837 15.275 53.350 1.00 23.37 O ATOM 1299 OED GLU A 310 32.837 15.275 53.350 1.00 19.19 C ATOM 1300 C GLU A 310 36.289 17.244 50.070 1.00 19.19 C ATOM 1300 C GLU A 310 36.289 17.244 50.070 1.00 19.19 C ATOM 1300 C GLU A 310 36.289 17.245 50.070 1.00 19.19 C ATOM 1300 C GLU A 310 35.742 17.808 49.125 1.00 16.33 N ATOM 1301 C LE A 311 37.238 17.825 50.790 1.00 18.33 N ATOM 1304 CA LLE A 311 37.696 19.178 50.504 1.00 17.23 C ATOM 1308 CGI LLE A 311 38.582 19.669 51.637 1.00 16.82 C ATOM 1311 CDI LLE A 311 38.615 19.946 54.200 1.00 16.30 C ATOM 1311 CDI LLE A 311 38.615 19.946 54.200 1.00 16.45 C ATOM 1319 C LLE A 311 38.615 19.946 54.200 1.00 16.45 C ATOM 1319 C LLE A 311 38.418 19.219 49.139 1.00 16.48 C ATOM 1320 O LLE A 311 38.418 19.219 49.139 1.00 16.68 C ATOM 1321 N MET A 312 39.415 18.166 48.830 1.00 16.06 N ATOM 1325 CB MET A 312 39.437 18.042 47.574 1.00 16.26 C ATOM 1325 CB MET A 312 40.615 16.729 47.479 1.00 16.62 C ATOM 1325 CB MET A 312 40.615 16.729 47.479 1.00 16.63 C C ATOM 1331 SD MET A 312 41.881 16.692 48.231 1.00 19.96 C ATOM 1331 SD MET A 312 41.881 16.692 48.231 1.00 19.96 C ATOM 1331 CD ATOM 1331 SD MET A 312 41.881 16.692 48.231 1.00 19.96 C ATOM 1336 C C MET A 312 39.137 18.627 45.440 1.00 16.25 C ATOM 1337 O MET A 312 39.137 18.627 45.440 1.00 16.25 C ATOM 1337 C MET A 312 39.137 18.627 45.440 1.00 16.25 C ATOM 1337 C MET A 312 39.137 18.627 45.440 1.00 16.25 C ATOM 1340 CA LEU A 313 36.01 16.308 46.453 1.00 15.98 C ATOM 1355 C B MET A 312 41.881 16.692 48.231 1.00 19.96 C ATOM 1357 C B MET A 312 41.881 16.692 48.231 1.00 19.96 C ATOM 1357 C B MET A 312 41.881 16.692 48.231 1.00 19.96 C ATOM 1357 C B MET A 312 41.881 16.692 48.231 1.00 16.05 C B MET A 312 41.881 16.692 48.231 1.00 16.95 C B MET A 312 41.881 16.692 48.231 1.00 16.95 C B MET A 312 41.881 16.692 48.231 1.00 16.95 C B MET A 312 41.881 16.692 48.231 1.00 16.95 C B MET A 312 41.881 16.692 48.231 1.00 16.95 C B MET A 312 41.881 16.692 48.231 1.00		1291									C
AROM 1291 CG GLU A 310 34.4990 15.7/6 51.899 1.00 12.65 CG AROM 1297 CG GLU A 310 33.484 91 14.367 51.899 1.00 21.65 CG AROM 1299 ODEI GLU A 310 33.388 14.236 52.957 1.00 22.37 CG AROM 1299 ODEI GLU A 310 32.837 15.275 53.356 1.00 23.47 CG AROM 1299 ODEI GLU A 310 32.837 15.275 53.356 1.00 23.47 CG AROM 1299 ODEI GLU A 310 36.289 17.246 50.070 1.00 19.19 CG AROM 1300 C GLU A 310 36.289 17.246 50.070 1.00 19.19 CG AROM 1301 OG GLU A 310 35.742 17.808 49.125 1.00 20.59 CG AROM 1301 OG GLU A 311 37.238 17.825 50.790 1.00 18.33 N AROM 1304 CA ILE A 311 37.696 19.187 50.5790 1.00 17.23 CC AROM 1306 CB ILE A 311 37.696 19.187 50.590 1.00 17.23 CC AROM 1308 CG ILE A 311 38.582 19.669 51.637 1.00 16.82 CC AROM 1315 CGI ILE A 311 38.615 19.946 54.200 1.00 16.45 CC AROM 1315 CGI ILE A 311 39.139 21.000 51.200 1.00 16.45 CC AROM 1319 C ILE A 311 38.415 19.946 54.200 1.00 16.45 CC AROM 1320 O ILE A 311 38.415 19.946 54.200 1.00 16.46 CC AROM 1320 O ILE A 311 38.415 19.946 54.200 1.00 16.46 CC AROM 1320 O ILE A 311 38.415 19.946 54.200 1.00 16.46 CC AROM 1320 O ILE A 311 38.415 19.946 54.200 1.00 16.46 CC AROM 1320 C ILE A 311 38.415 19.946 54.200 1.00 16.46 CC AROM 1320 C ILE A 311 38.415 19.946 54.200 1.00 16.46 CC AROM 1320 C ILE A 311 38.415 19.946 54.200 1.00 16.46 CC AROM 1320 C ILE A 311 38.415 18.166 48.830 1.00 16.06 N AROM 1320 C ILE A 311 38.415 18.166 48.830 1.00 16.06 N AROM 1320 C ILE A 311 38.415 18.166 48.830 1.00 16.06 N AROM 1320 C ILE A 311 38.415 18.166 48.830 1.00 16.06 N AROM 1320 C ILE A 311 38.415 18.166 48.830 1.00 16.06 N AROM 1320 C ILE A 311 38.415 18.166 692 47.579 1.00 16.63 C C AROM 1325 CB MET A 312 40.816 18.669 47.574 1.00 16.26 C C AROM 1325 CB MET A 312 40.816 18.669 48.830 1.00 16.06 N AROM 1336 C RET A 312 40.816 18.669 48.830 1.00 16.63 C C AROM 1336 C RET A 312 38.816 18.669 48.830 1.00 15.63 C C C AROM 1336 C RET A 312 38.816 18.669 48.830 1.00 15.59 C C AROM 1336 C RET A 312 38.816 18.669 48.830 1.00 15.59 C C AROM 1337 C C LEU A 314 35.600 19.357 44.6650 1.00 15.59 C C AROM 1337 C	ATOM	1289						50.440	1.00 19.43	<del>7</del>	Č
APOM   1291								440	4 00 10 40	`	~

ATOM	1415	N	ARG I	A 318		35.934	23623	41.947	1.00 22.02
ATOM	1417	CA		A 318		36.313	25.033	41.796	1.00 22.02
MOTA	1419	CB	ARG A			37.094	25.465		1.00 22.80
ATOM	1422	CG	ARG A	A 318		36.573	26.602	43.856	1.00 23.87
MOTA	1425	CD	ARG A			37.322	26.668	45.163	1.00 27.49
ATOM	1428	NE	ARG A			37.035	27.843	45.987	1.00 33.60
MOTA	1430	CZ	ARG A			37.516	29.056	45.772	1.00 39.43
MOTA	1431	NH1	ARG A	A 318		38.325	29.293	44.736	
ATOM	1434		ARG A			37.180	30.043	46.599	
ATOM	1437	С	ARG A			37.230	25.307	40.615	1.00 43.04
ATOM	1438	Ó	ARG A			37.245	26.411	40.013	1.00 21.79
ATOM	1439	N	ARG A			38.044	24.317	40.259	1.00 21.76
ATOM	1441	CA	ARG A			39.023	24.421	39.171	1.00 20.98
ATOM	1443	CB	ARG A			40.313	23.710		1.00 20.20
ATOM	1446	CG	ARG A			41.082	24.401	40.647	1.00 20.14
ATOM	1449	CD	ARG A			42.014	23.486	41.412	1.00 20.81
ATOM	1452	NE	ARG A			42.885	24.247		1.00 23.29
ATOM	1454	CZ	ARG A			42.504	24.799	42.294	1.00 24.81
ATOM	1455		ARG A			41.265		43.426	1.00 26.82
ATOM	1458		ARG A			43.371	24.659 25.490	43.852	1.00 28.73
ATOM .	1461	C	ARG A			38.538	23.826	44.155	1.00 29.94
ATOM	1462	ŏ	ARG A			39.312	23.733	37.850	1.00 19.77
ATOM	1463	N	TYR A			37.283	23.733	36.881	1.00 18.83
ATOM	1465	CA	TYR A			36.613	22.945	37.835	1.00 19.44
ATOM	1467	CB	TYR A			35.365	22.945	36.616	1.00 19.71
ATOM	1470	CG	TYR A			34.596		36.956	1.00 19.39
ATOM	1471		TYR A			35.123	21.588 20.608	35.769	1.00 18.73
ATOM	1473		TYR A			34.416	20.008	34.962	1.00 19.98
ATOM	1475	CZ	TYR A			33.167	20.112	33.868 33.575	1.00 20.60
ATOM	1476	ОН	TYR A			32.486	20.107		1.00 20.46
ATOM	1478	CE2	TYR A			32.611	21.578	32.487	1.00 20.85
ATOM	1480	CD2	TYR A		•	33.328	22.063	34.370	1.00 19.65
ATOM	1482	C		320		36.239	24.163	35.463	1.00 19.36
ATOM	1483	ŏ	TYR A			35.657	25.127	35.769	1.00 20.30
ATOM	1484		ASN A			36.613		36.254	1.00 19.92
ATOM.	1486	CA	ASN A			36.217	24.115 25.110	34.501 33.536	1.00 21.61
ATOM	1488	CB	ASN A			37.409	25.484		1.00 22.66
ATOM	1491	CG	ASN A			37.143	26.698	32.663	1.00 23.12
ATOM	1492		ASN A			37.647	27.782	31.800	1.00 22.84
ATOM	1493		ASN A			6.348	26.524	32.069	1.00 24.62
ATOM	1496	C	ASN A			35.096	24.525	30.771	1.00 20.92
ATOM	1497	ō	ASN A			35.313		32.697	1.00 23.60
ATOM	1498	N	HIS A		3	3.895	23.608 25.053	31.918	1.00 23.48
ATOM	1500	CA	HIS A		3	2.693	24.646	32.892 32.156	1.00 25.23
ATOM	1502	CB	HIS A			1.492	25.513		1.00 26.51
ATOM	1505	CG	HIS A			0.275	25.424	32.633 31.762	1.00 27.27
MOTA	1506		HIS A		2	9.601	24.240		1.00 29.99
ATOM	1508	CE1	HIS A	322		8.586	24.463	31.535	1.00 32.54
ATOM	1510	NE2	HIS A	322		8.571	25.750	30.713	1.00 34.07
ATOM	1512	CD2	HIS A	322		9.611	26.376	30.404 31.058	1.00 34.11
MOTA	1514	C	HIS A			2.891	24.711		1.00 33.10
ATOM	1515	Ō	HIS A			2.418	23.833	30.633	1.00 26.52
ATOM	1516	N	GLU A			3.617	25.722	29.900	1.00 26.62
MOTA	1518	CA	GLU A			3.748	25.722	30.158	1.00 26.77
ATOM	1520	СВ	GLU A			4.133	27.448	28.712	1.00 26.91
ATOM	1523	ĊĠ	GLU A			3.148		28.469	1.00 27.10
ATOM	1526	CD	GLU A			2.215	28.221	27.591	1.00 28.96
ATOM	1527		GLU A	323		2.234	29.128 29.079	28.383	1.00 30.50
ATOM	1528	OE2	GLU A	353		1.461		29.638	1.00 30.87
ATOM	1529	C	GLU A			4.735	29.899	27.740	1.00 30.74
ATOM	1530	ŏ	GLU A			4.592	25.057 24.847	27.963	1.00 26.84
		-		525	3		~4.04/	26.761	1.00 26.37

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ATOM	1531	N	THR A	324	35.739	24.534	28.670	1.00 26.82	N
ATOM	1533		THR A		36.721	23.609	28.099	1.00 26.57	С
ATOM	1535		THR A		38.190	24.074	28.416	1.00 26.67	С
ATOM	1537		THR A		38.467	24.031	29.833	1.00 25.10	0
ATOM	1539		THR A		38.416	25.538	28.015	1.00 26.34	C
ATOM	1543	C	THR A		36.507	22.164	28.583	1.00 26.77	· c
ATOM	1544	Ö	THR A		37.143	21.254	28.075	1.00 26.83	ŏ
			GLU A		35.598	21.962	29.538	1.00 26.97	N
ATOM	1545	N			35.375	20.663	30.204	1.00 27.23	Č
ATOM	1547	CA	GLU A			19.675	29.234	1.00 27.23	č
MOTA	1549	CB	GLU A		34.689		29.587	1.00 27.47	C
MOTA	1552	CG	GLU A		33.233	19.344			C
ATOM	1555	CD	GLU A		32.398	18.812	28.408	1.00 29.54	C
MOTA	1556		GLU A		32.727	19.079	27.222	1.00 29.64	0
ATOM	1557		GLU A		31.383	18.126	28.668	1.00 29.96	0
MOTA	1558	С	GLU A		36.669	20.077	30.829	1.00 27.23	C
MOTA	1559	0	GLU A		36.837	18.854	30.934	1.00 27.55	0
ATOM	1560	N	CYS A		37.563	20.971	31.256	1.00 26.85	N
ATOM	1562	CA	CYS A	326	38.877	20.606	31.795	1.00 26.31	С
ATOM	1564	CB	CYS A	326	39.991	21.098	30.864	1.00 26.31	C
MOTA	1567	SG	CYS A	326	40.201	20.150	29.337	1.00 27.85	S
MOTA	1568	С	CYS A	326	39.095	21.213	33.180	1.00 25.45	С
ATOM	1569	0	CYS A	326	38.497	22.234	33.523	1.00 25.10	0
ATOM	1570	N	ILE A		39.979	20.577	33.947	1.00 24.73	N
ATOM	1572	CA	ILE A		40.265	20.934	35.332	1.00 24.35	С
ATOM	1574	CB	ILE A		40.046	19.699	36.227	1.00 24.35	C
ATOM	1576	CG1	ILE A		38.560	19.368	36.321	1.00 24.03	C
ATOM	1579	CD1	ILE A		38.310	18.010	36.913	1.00 25.32	C
ATOM	1583	CG2			40.634	19.908	37.604	1.00 23.73	Č
	1587	C	ILE A		41.711	21.398	35.429	1.00 24.23	Ċ
ATOM	1588	Ö	ILE A		42.596	20.722	34.925	1.00 23.97	ō
ATOM			THR A		41.945	22.521	36.108	1.00 24.35	N
ATOM	1589	N			43.262	23.135	36.176	1.00 24.56	č
MOTA	1591	CA	THR A		43.221	24.573	35.612	1.00 24.72	č
MOTA	1593	CB	THR A		42.759	24.549	34.254	1.00 24.72	ŏ
ATOM	1595	OG1	THR A		44.638	25.177	35.492	1.00 24.02	č
ATOM	1597	CG2					37.601	1.00 25.13	č
MOTA	1601	C	THR A		43.827	23.146		1.00 23.13	O
MOTA	1602	0	THR A		43.288	23.805	38.511		
ATOM	1603	N_	PHE P		44.932	22.421	37.773	1.00 25.28	N C
MOTA	1605	CA	PHE A		45.690	22.429	39.013	1.00 25.63	
MOTA	1607	CB		A 329	46.168	21.003	39.303	1.00 25.28	C
MOTA	1610	CG		A 329	45.058	19.981	39.249	1.00 23.41	C
MOTA	1611		PHE A		45.075	18.960	38.309	1.00 21.30	C
MOTA	1613		PHE A		44.050	18.042	38.242	1.00 20.33	C
ATOM	1615	CZ		A 329	42.978	18.125	39.127	1.00 20.10	C
ATOM	1617		PHE A		42.943	19.139	40.075	1.00 21.64	C
ATOM	1619	CD2	PHE A		43.976	20.068	40.128	1.00 21.59	C
MOTA	1621	С		A 329	46.859	23.413	38.923	1.00 27.08	Ç
MOTA	1622	0		A 329	47.514	23.529	37.879	1.00 27.03	0
ATOM	1623	N		A 330	47.086	24.162	39.999	1.00 28.88	N
MOTA	1625	CA	LEU A	A 330	48.317	24.959	40.168	1.00 30.33	С
ATOM	1627	CB	LEU Z	A 330	49.543	24.024	40.284	1.00 30.46	С
ATOM	1630	CG	LEU A	A 330	49.540	22.997	41.419	1.00 30.49	С
ATOM	1632		LEU A		50.613	21.962	41.199	1.00 31.98	C
ATOM	1636		LEU Z		49.751	23.668	42.752	1.00 30.65	C
ATOM	1640	C		A 330	48.575	25.998	39.062	1.00 31.29	C
ATOM	1641	ŏ		A 330	49.695	26.113	38.556		0
ATOM	1642	N		A 331	47.547	26.748	38.682	1.00 32.74	N
MOTA	1644	CA		A 331	47.668	27.785	37.632		C
ATOM	1646			A 331	48.877	28.735	37.855		C
ATOM	1649	CG		A 331	49.110	29.269	39.284		Ċ
ATOM	1652	CD		A 331	49.871	30.635	39.289		Č
ATOM	1002								

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1655 1658 1662 1663 1664 1666 1668	CE NZ C O N CA CB CG	LYS A LYS A LYS A ASP A ASP A ASP A	331 331 331 332 332 332	49.066 49.126 47.805 47.389 48.401 49.005	31.744 33.069 27.247 27.907 26.070 25.697 25.843	40.025 39.324 36.211 35.269 36.047 34.772 34.872	1.00 38.72 1.00 38.94 1.00 33.94 1.00 34.65 1.00 34.28 1.00 34.16 1.00 34.39	
ATOM ATOM ATOM	1672 1673 1674	OD1 OD2 C	ASP A ASP A	332 332 332	51.040 50.978 51.504 48.700	27.045 27.038 28.047 24.301	34.125 32.876 34.708 34.268	1.00 34.51 1.00 34.87 1.00 35.55 1.00 33.94	
ATOM ATOM ATOM	1675 1676 1678	O N	ASP A	333	48.561 48.677	24.108 23.323	33.060 35.166	1.00 34.65 1.00 33.39	
ATOM ATOM	1680	CA CB	PHE A	333	48.485 49.024	21.929 20.986	34.775 35.863	1.00 32.85 1.00 32.98	
MOTA	1683 1684	CG CD1	PHE A	333	50.520 51.087	21.059 21.780	36.031 37.072	1.00 33.52 1.00 33.91	:
ATOM ATOM	1686 1688	CE1	PHE A		52.471 53.286	21.862 21.229	37.213 36.318	1.00 33.43	
ATOM ATOM	1690	CE2	PHE A	. 333	52.735	20.521	35.261	1.00 33.89 1.00 34.47	
ATOM ·	1692 1694	CD2	PHE A		51.358 47.022	20.440 21.665	35.121 34.501	1.00 34.19 1.00 31.92	
ATOM ATOM	1695 1696	N O	PHE A		46.222	21.708	35.410	1.00 31.94	
MOTA	1698	CA	THR A	. 334	46.688 45.300	21.383 21.254	33.245 32.796	1.00 31.20 1.00 30.75	
ATOM ATOM	1700 1702	CB OG1	THR A		45.014 45.207	22.318	31.727	1.00 30.62	
ATOM	1704	CG2	THR A	. 334	43.545	23.613 22.322	32.303 31.316	1.00 30.79 1.00 30.43	
ATOM ATOM	1708 1709	С О	THR A		45.023	19.864	32.242	1.00 30.23	
ATOM	1710	N	THR A		45.861 43.842	19.304 19.320	31.551 32.544	1.00 30.23 1.00 29.92	
ATOM ATOM	1712	CA	TYR A	335	43.501	17.931	32.205	1.00 29.62	
ATOM	1714 1717	CB CG	TYR A		43.867 45.325	16.986 17.092	33.366 33.729	1.00 29.47 1.00 29.58	
ATOM	1718	CD1	TYR A	335	45.737	17.850	34.823	1.00 29.58	
ATOM ATOM	1720 1722	CE1 CZ	TYR A		47.079 48.024	17.973 17.362	35.134	1.00 29.82	
ATOM	1723	OH	TYR A	335	49.358	17.476	34.325 34.607	1.00 29.99 1.00 31.94	
ATOM ATOM	1725 1727	CE2 CD2	TYR A		47.640	16.635	33.219	1.00 29.71	
MOTA	1729	C	TYR A		46.302 42.030	16.508 17.762	32.922 31.864	1.00 29.36 1.00 29.38	•
MOTA MOTA	1730	0	TYR A	335	41.177	18.458	32.405	1.00 29.15	
ATOM	1731 1733	N CA	SER A		41.745 40.384	16.813 16.524	30.976 30.541	1.00 29.15 1.00 28.85	
ATOM	1735	CB	SER A	336	40.307	16.527	29.021	1.00 28.49	
ATOM ATOM	1738 1740	OG C	SER A		41.107 39.981	15.491 15.163	28.485 31.063	1.00 27.98	
ATOM	1741	0	SER A	336	40.824	14.420	31.552	1.00 28.83 1.00 28.78	
ATOM ATOM	1742 1744	N CA	LYS A LYS A		38.695 38.168	14.839 13.519	30.934	1.00 28.88	
ATOM	1746	CB	LYS A	337	36.742	13.319	31.298 30.764	1.00 28.86 1.00 28.93	
ATOM .	1749 1752	CG CD	LYS A LYS A		35.739	12.823	31.796	1.00 30.85	
ATOM	1755	CE	LYS A	337	34.407 33.456	12.361 13.529	31.151 30.806	1.00 32.64 1.00 33.98	
ATOM ATOM	1758 1762	NZ	LYS A		32.125	13.458	31.537	1.00 35.47	
ATOM	1763	C 0	LYS A LYS A		39.053 39.286	12.385 11.404	30.776 31.492	1.00 28.68 1.00 28.62	
ATOM	1764	N	ASP A	338	39.537	12.524	29.536	1.00 28.16	
ATOM ATOM	1766 1768	CA CB	ASP A		40.370 40.661	11.496 11.800	28.921 27.435	1.00 27.94	
ATOM	1771	CG	ASP A		39.498	11.428	26.502	1.00 28.12 1.00 28.23	

ATOM	1772	OD1	ASP A	338	38.407	11.062	26.993	1.00 28.81	0
ATOM	1773	OD2	ASP A	338	39.585	11.489	25.256	1.00 27.66	0
ATOM	1774	С	ASP A	338	41.679	11.352	29.690	1.00 27.53	С
ATOM	1775	0	ASP A	338	42.093	10.237	30.009	1.00 27.27	0
ATOM	1776		ASP A		42.324	12.478	29.990	1.00 26.98	N
ATOM	1778		ASP A		43.580	12.449	30.743	1.00 26.51	C
ATOM	1780		ASP A		44.098	13.864	31.040	1.00 26.35	C
MOTA	1783		ASP A		44.531	14.617	29.784	1.00 26.67	Ċ
ATOM	1784		ASP A		45.108	14.010	28.844	1.00 27.93	Ō
ATOM	1785		ASP A		44.339	15.837	29.650	1.00 26.18	Ö
ATOM	1786	C	ASP A		43.463	11.634	32.040	1.00 26.10	Č
ATOM	1787		ASP A		44.391	10.906	32.392	1.00 26.08	Ŏ
ATOM	1788	N	PHE A		42.328	11.725	32.732	1.00 25.51	N
ATOM	1790	CA	PHE A		42.149	10.965	33.964	1.00 25.32	Ċ
ATOM	1792	CB	PHE A		40.967	11.492	34.795	1.00 24.90	Č
ATOM	1795	CG	PHE A		41.175	12.888	35.305	1.00 22.96	Č
ATOM	1796		PHE A		40.553	13.966	34.697	1.00 22.02	Ċ
ATOM	1798		PHE A		40.758	15.257	35.153	1.00 22.03	Ċ
ATOM	1800	CZ	PHE A		41.598	15.487	36.229	1.00 20.58	č
ATOM	1802		PHE A		42.226	14.421		1.00 20.74	Č
ATOM	1804		PHE A		42.016	13.128	36.371	1.00 21.10	c
ATOM	1806	C	PHE A		42.022	9.466	33.682	1.00 25.66	č
ATOM	1807	ŏ	PHE A		42.466	8.650	34.483	1.00 25.91	ŏ
ATOM	1808	N	HIS 2		41.435	9.106	32.550	1.00 26.18	Ŋ
ATOM	1810	CA	HIS A		41.343	7.700	32.148	1.00 26.87	Č
ATOM	1812	CB	HIS A		40.295	7.513	31.045	1.00 27.05	č
ATOM	1815	CG		A 341	39.884	6.085	30.849	1.00 28.71	č
MOTA	1816		HIS A		39.126	5.394	31.771	1.00 29.94	Ň
MOTA	1818		HIS A		38.922	4.162	31.335	1.00 31.00	č
ATOM	1820		HIS A		39.523	4.027	30.165	1.00 30.91	N
ATOM	1822		HIS A		40.134	5.215	29.838	1.00 30.45	· Č
ATOM	1824	C		A 341	42.684	7.113	31.685	1.00 26.76	č
ATOM	1825	Õ		A 341	42.984	5.947	31.954	1.00 26.77	ő
ATOM	1826	N		A 342	43.486		31.003	1.00 26.70	N
ATOM	1828	CA		A 342	44.794		30.513	1.00 26.94	Č
ATOM	1830	CB		A 342	45.382	8.543	29.558	1.00 26.90	č
ATOM	1833	CG		A 342	44.664		28.210	1.00 28.19	č
ATOM	1836	CD		A 342	45.229		27.226	1.00 29.91	č
ATOM	1839	NE		A 342	44.476		27.264	1.00 31.33	N
ATOM	1841	CZ		A 342	44.632		26.412	1.00 31.59	Ċ
ATOM	1842		ARG		45.525		25.427	1.00 31.20	N
MOTA	1845			A 342	43.886		26.554	1.00 31.62	Ŋ
ATOM	1848	С		A 342	45.778		31.656	1.00 26.76	Ċ
ATOM	1849	ŏ		A 342	46.798		31.423	1.00 26.70	ō
MOTA	1850	N		A 343	45.470		32.872	1.00 26.62	N
ATOM	1852	CA		A 343	46.280	7.431	34.079	1.00 26.39	Ĉ
ATOM	1854	CB		A 343	46.349		34.939	1.00 26.48	Č
ATOM	1858	Č		A 343	45.776		34.924	1.00 26.40	C
ATOM	1859	ŏ		A 343	46.353		35.966	1.00 26.25	ŏ
ATOM	1860	N		A 344	44.691		34.481	1.00 26.50	Ŋ
ATOM	1862	CA		A 344	44.267		35.001	1.00 26.55	C
ATOM	1865	C		A 344	43.280		36.136	1.00 26.67	č
ATOM	1866	ŏ		A 344	43.183		36.951	1.00 27.06	Ö
ATOM	1867	N		A 345	42.551		36.197	1.00 26.53	N
ATOM	1869	CA		A 345	41.463		37.153	1.00 26.53	C
MOTA	1871	CB		A 345	41.267		37.516	1.00 26.53	Č
ATOM	1874	CG		A 345	42.518		38.072	1.00 24.62	C
ATOM	1876			A 345	42.305		38.144	1.00 24.46	č
ATOM	1880			A 345	42.897		39.436	1.00 23.50	· c
ATOM	1884	C		A 345	40.181		36.586	1.00 26.63	Č
ATOM	1885	0		A 345	39.898		35.395	1.00 26.63	Ö
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MOTA	1886	N	GLN A	346	39.454	4.294	37.434	1.00 26.91		N
ATOM.	1888		GLN A		38.105	3.792	37.127	1.00 26.83		С
MOTA	1890	CB	GLN A	346 -		3.473	38.426	1.00 27.27		. С
ATOM	1893	CG	GLN A	346	37.770	2.240	39.251	1.00 28.32		. С
MOTA	1896	CD	GLN A	346	36.835	1.986	40.479	1.00 29.29		. c
ATOM '	1897		GLN A		36.459	0.842	40.753	1.00 31.84		0
MOTA	1898		GLN A		36.460	3.046	41.182	1.00 27.17		N
MOTA	1901		GLN A		37.288	4.867	36.416	1.00 26.31		C _.
MOTA	1902		GLN A		37.438	6.055	36.704	1.00 26.77		, oʻ
MOTA	1903		VAL A		36.389	4.454	35.536	1.00 25.81		N
MOTA	1905		VAL A		35.368	5.358	34.976	1.00 25.38		иссссо
MOTA	1907		VAL A		34.753	4.766	33.669	1.00 25.51		. C
MOTA	1909		VAL A		33.790	5.742	32.998	1.00 25.31		C
MOTA	1913		VAL A		35.874	4.396	32.704	1.00 25.57		. С
MOTA	1917	С	VAL A		34.304	5.642	36.057	1.00 24.93		C
MOTA	1918	0	VAL A		33.792	6.757	36.161	1.00 23.88		0
ATOM	1919	N	GLU A		34.045	4.636	36.898	1.00 24.60	•	N
MOTA	1921	CA	GLU A		33.146	4.756	38.063	1.00 24.72	•	C
ATOM	1923	CB	GLU A		33.019	3.390	38.770	1.00 24.91		C
MOTA	1926	CG	GLU A		32.539	2.243	37.885	1.00 26.71	•	C
ATOM	1929	CD	GLU P		33.685		37.206	1.00 29.71		C
ATOM	1930		GLU F		33.582	1.233	35.991	1.00 31.00		0
MOTA	1931		GLU F		34.701	1.160	37.869	1.00 31.93		0
ATOM	. 1932	C	GLU F		33.583	5.808	39.107	1.00 23.86		0
ATOM	1933	0	GLU F		32.829	6.137	40.029	1.00 23.87		NCC COOCONC
MOTA	1934	N		A 349	34.816	6.285	38.974	1.00 23.14		N
MOTA	1936	CA		A 349		7.307	39.840	1.00 22.80 1.00 23.01		C
MOTA	1938	CB		A 349	36.854	6.903	40:134	1.00 23.01		C
MOTA	1941	CG		A 349	37.583 37.088	7.793	41.085 42.350	1.00 22.39		c
MOTA	1942		PHE A		37.088 37.780	8.050 8.853	43.218	1.00 20.60		C
ATOM ATOM	1944	CEI	PHE A	A 349	39.013	9.375	42.856	1.00 20.00		. č
ATOM ·	1946 1948		PHE A		39.533	9.127	41.614	1.00 22.28		č
MOTA	1950		PHE 2		38.818	8.336	40.726	1.00 23.79		C
ATOM ATOM	1952	CDZ		A 349	35.371	8.639	39.116			Ċ.
ATOM	1953	Ö		A 349	34.953	9.628	39.669	1.00 21.90		^
ATOM	1954	N		A 350	35.796	8.635	37.857	1.00 22.24		0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ATOM	1956	ĆA		A 350	35.895	9.848	37.060	1.00 22.04		Ċ
ATOM	1958	CB		A 350	36.575	9.537	35.722	1.00 21.70		Č
ATOM	1960		ILE		38.079	9.313	35.922	1.00 22.13	•	C
ATOM	1963		ILE		38.756	8.515	34.775	1.00 21.47		C
ATOM	1967		ILE		36.332	10.663	34.718	1.00 21.28		С
ATOM	1971	С		A 350	34.558	10.515	36.782	1.00 22.33		С
ATOM	1972	Ō		A 350	34.434	11.731	36.887	1.00 22.59		C 0
MOTA	1973	N		A 351	33.572	9.732	36.358	1.00 22.84		N
ATOM	1975	CA	ASN .	A 351	32.302	10.302	35.907	1.00 22.42		C
MOTA	1977	CB	ASN .	A 351	31.433	9.243	35.211	1.00 22.60		С
ATOM	1980	CG	ASN	A 351	31.905	8.937	33.789	1.00 23.53		С
ATOM	1981	OD1	ASN	A 351	32.687	9.687	33.203	1.00 25.37		0
ATOM	1982	ND2	ASN		31.424	7.836	33.232	1.00 23.29		N
ATOM	1985	С	ASN	A 351	31.558	11.005	37.045	1.00 22.06		С
MOTA	1986	0		A 351	31.069	12.114	36.843	1.00 22.38		0
MOTA	1987	N		A 352	31.464	10.388	38.228	1.00 21.48		И
MOTA	1988	CA		A 352	30.887	11.074	39.397	1.00 20.83		C
ATOM	1990	CB		A 352	30.914	10.006	40.491	1.00 20.76		C
MOTA	1993	CG		A 352	30.930	8.732	39.765	1.00 21.63		. C
ATOM	1996	CD		A 352	31.813	8.990	38.550	1.00 21.39		Č
ATOM	1999	C		A 352	31.645	12.322	39.856	1.00 20.50		C
ATOM	2000	0		A 352	30.977	13.206	40.375	1.00 19.87		0
ATOM	2001	N		A 353	32.966	12.412	39.672	1.00 19.96		N
MOTA	2003	CA	TTE	A 353	33.689	13.627	40.076	1.00 19.92		С

ATOM	2005	СВ	ILE	A 353	35.236	13.428	40.135	1.00 19.61	С
MOTA	2007			A 353	35.686	12.406	41.190	1.00 20.31	C
MOTA	2010			A 353	34.657	11.997	42.210	1.00 22.76	č
ATOM	2014	CG2	_	A 353	35.906	14.762	40.367	1.00 19.04	C
ATOM ATOM	2018	C		A 353	33.379	14.758	39.099	1.00 19.71	С
ATOM	2019	0		A 353	33.261	15.903	39.505	1.00 19.66	0
ATOM	2020	N		A 354	33.280	14.435	37.812	1.00 19.64	N
ATOM	2022 2024	CA CB		A 354	32.886	15.431	36.785	1.00 19.92	С
ATOM	2027	CG		A 354 A 354	33.175 34.513	14.938	35.370	1.00 19.71	C
ATOM	2028			A 354	35.625	15.328 14.553	34.876	1.00 20.80	C
ATOM	2030			A 354	36.896	14.919	35.182 34.739	1.00 23.54	C
ATOM	2032	CZ		A 354	37.056		33.983	1.00 24.39 1.00 24.23	C
ATOM	2034			A 354	35.946	16.849	33.685	1.00 24.23	C
ATOM	2036			A 354	34.685	16.477	34.140	1.00 23.03	C
ATOM	2038	Ç		A 354	31.424	15.884	36.877	1.00 19.67	Ċ
ATOM	2039	0	PHE	A 354	31.126	17.052	36.613	1.00 19.35	ŏ
ATOM	2040	N		A 355	30.541	14.976	37.286	1.00 19.54	N
ATOM	2042	CA		A 355	29.141	15.314	37.550	1.00 19.97	Ċ
ATOM	2044	CB		A 355	28.337	14.053		1.00 20.00	Ċ
ATOM	2047	CG		A 355	27.688	13.441	36.635	1.00 22.53	Ċ
ATOM ·	2050	CD		A 355	27.848	11.929	36.543	1.00 26.22	· C
ATOM ATOM	2051			A 355	27.853	11.411	35.386	1.00 26.82	0
ATOM	2052 2053	C C		A 355 A 355	27.946	11.267	37.610	1.00 27.50	0
ATOM	2054	Ö		A 355	29.036 28.311	16.284 17.264	38.734	1.00 19.93	C
ATOM	2055	N		A 356	29.794	16.011	38.684 39.785	1.00 19.80	0
ATOM	2057	CA		A 356	29.799	16.853	40.966	1.00 19.56 1.00 19.66	И
ATOM	2059	CB		A 356	30.591	16.167	42.081	1.00 19.44	C
ATOM	2062	CG		A 356	30.659	16.955	43.348	1.00 19.44	C
MOTA	2063			A 356	29.577	16.978	44.223	1.00 20.43	C
MOTA	2065			A 356	29.647	17.694	45.404	1.00 19.47	c
MOTA	2067	CZ		A 356	30.809	18.396	45.720	1.00 18.74	Č
ATOM	2069			A 356	31.881	18.384	44.855	1.00 19.01	Č
ATOM	2071			A 356	31.811	17.672	43.678	1.00 19.31	C
ATOM	2073	C		A 356	30.373	18.223	40.625	1.00 19.40	С
ATOM	2074	0		A 356	29.825	19.225	40.990	1.00 18.28	0
ATOM ATOM	2075 2077	N CA		A 357 A 357	31.457	18.249	39.870	1.00 20.60	N
ATOM	2079	CB		A 357	32.128 33.338	19.499	39.503	1.00 20.59	C
ATOM	2082	OG		A 357	34.369	19.227 18.580	38.602	1.00 20.29	C
ATOM	2084	C		A 357	31.194	20.445	39.329 38.806	1.00 20.02 1.00 20.65	0
ATOM	2085	ō		A 357	31.099	21.606	39.160	1.00 20.03	C O
ATOM	2086	N		A 358	30.488	19.958	37.815	1.00 21.00	N
MOTA	2088	CA		A 358	29.605		37.041		C
MOTA	2090	CB	ARG	A 358	29.238	20.203	35.708	1.00 21.20	Č
MOTA	2093	CG		A 358	28.561	18.881	35.802	1.00 22.25	Č
ATOM	2096	CD		A 358	28.071	18.403	34.441	1.00 23.15	. <b>C</b>
ATOM	2099	NE		A 358	29.192	17.895	33.667	1.00 23.60	N
ATOM	2101	CZ		A 358	29.508	16.607	33.533	1.00 26.50	С
MOTA	2102			A 358	28.770	15.650	34.106	1.00 26.64	N
ATOM ATOM	2105 2108	C		A 358	30.558	16.272	32.783	1.00 28.29	Ŋ
ATOM	2108	0		A 358 A 358	28.361	21.285	37.816	1.00 21.19	C
MOTA	2110	N		A 350 A 359	27.888 27.845	22.421 20.399	37.655 38.664	1.00 20.90	0
MOTA	2112	CA		A 359	26.770	20.339	39.595	1.00 21.30 1.00 21.67	N
ATOM	2114	CB		A 359	26.329	19.479	40.375	1.00 21.67	C
ATOM	2118	C		A 359	27.213	21.831	40.576	1.00 21.70	C
MOTA	2119	0		A 359	26.457	22.711	40.925	1.00 21.77	. 0
MOTA	2120	N	MET	A 360	28.457	21.767	41.001	1.00 23.01	N
ATOM	2122	CA	MET	A 360	29.009	22.748	41.919	1.00 24.64	Ċ
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ATOM	2124	CB	MET :	A 360		30.361	22.254	42.446	1.00 24.59	
ATOM	2127	CG	MET	A 360		30.641		43.881	1.00 24.53	
MOTA	2130	SD		A 360		29.338	22.222	45.065	1.00 27.33	
MOTA	2131	CE		A 360 ·		29.857	20.934		1.00 20.30	
ATOM	2135	С		A 360		29.148	24.121		1.00 30.19	
ATOM	2136	.0		A 360		28.926				
ATOM	2137	N		A 361		29.480	24.126		1.00 25.74	
ATOM	2139	CA	ARG	A 361		29.584	25.371		1.00 25.84	
ATOM	2141	CB		A 361		30.249			1.00 26.35	
ATOM	2144	CG		A 361		31.701		37.669	1.00 27.12	
ATOM	2147		ARG 2	A 361		32.662			1.00 29.89	
ATOM	2150	NE .		A 361			25.373		1.00 31.97	•
ATOM	2152	CZ		A 361		33.860			1.00 33.46	
ATOM	2153		ARG Z	1 301 N 361		34.416				
ATOM	2156		ARG A						1.00 36.21	
ATOM	2159	Ç	ANG A	A 361		34.127			1.00 37.44	
ATOM	2160	Ö	ADC 1	A 361		28.239			1.00 26.11	
ATOM	2161	N		A 362		28.179			1.00 26.26	
ATOM	2163	CA		A 362		27.159			1.00 25.48	
ATOM	2165	CB		A 362		25.834	25.863 24.804	38.729	1.00 25.07	
ATOM	2168	CG		A 362		24.771	24.804		1.00 25.05	
ATOM	2171	CD		A 362		24.727		36.901	1.00 26.61	
ATOM	2174	NE				23.614			1.00 30.55	
ATOM	2176			A 362		24.090			1.00 33.30	
ATOM		CZ		A 362		23.737			1.00 33.74	
ATOM	2177	NHT	ARG A	4 362		22.882	21.411		1.00 34.38	
ATOM	2180		ARG A			24.258	19.964		1.00 33.96	
	2183	C		A 362		25.467			1.00 24.29	
ATOM	2184	0		A 362		24.923			1.00 24.82	
ATOM	2185	N	LEU A			25.813		41.126	1.00 24.09	
MOTA	2187	CA	LEU A	1 363		25.515	26.735		1.00 23.70	
ATOM	2189	CB	LEU A	1 363		25.927	25.841	43.562	1.00 24.14	
ATOM	2192	CG	TEO Y	363		24.872	25.174		1.00 25.78	
ATOM	2194	CDI	LEU A	1 363		25.540	24.801		1.00 26.68	
ATOM	2198		LEU A			23.653			1.00 26.04	
MOTA	2202	C	LEU A			26.223			1.00 22.89	
ATOM	2203	0	LEU A			25.760			1.00 22.75	
ATOM	2204	N	GLY A			27.355	28.251		1.00 22.35	
ATOM	2206	CA	GLY A			28.092	29.509		1.00 21.60	
MOTA	2209	C	GLY F			28.424	30.050		1.00 20.93	
ATOM	2210	0	GLY A			28.151	31.187	43.573	1.00 20.48	
ATOM	2211	N	LEU A		•	29.015	29.239	44.112	1.00 20.65	
ATOM	2213	CA	LEU A			29.409	29.712		1.00 20.77	
MOTA	2215	CB	LEU P			29.970	28.563		1.00 20.89	
ATOM	2218	CG	LEU A			29.053	27.368	46.534	1.00 21.09	
ATOM	2220		LEU A			29.655	26.540	47.624	1.00 23.59	
ATOM	2224		LEU A			27.722	27.838	46.955	1.00 23.26	
ATOM	2228	C	LEU A			30.449	30.830	45.348	1.00 20.31	•
ATOM	2229	0	LEU P			31.290	30.801	44.466	1.00 20.83	
ATOM	2230	N	ASP A			30.390	31.819	46.241	1.00 19.34	
ATOM	2232	CA	ASP A			31.450	32.813	46.304	1.00 18.83	
MOTA	2234	CB	ASP A			30.904	34.235	46.543	1.00 18.87	
MOTA	2237	CG	ASP A	366		30.328	34.442	47.922	1.00 19.79	
MOTA	2238	OD1	ASP A	366		30.648	33.664	48.849	1.00 22.64	
ATOM'	2239	OD2	ASP A	366		29.547	35.383	48.175	1.00 18.75	
MOTA	2240	C	ASP A			32.511	32.369	47.311	1.00 18.05	
ATOM	2241	0	ASP A	366		32.373	31.318	47.902	1.00 17.47	
MOTA	2242	N	ASP A	367		33.577	33.145	47.458	1.00 17.47	
MOTA	2244	CA	ASP A	367		34.732	32.766	48.286	1.00 18.77	
MOTA	2246	CB	ASP A	367		35.792	33.879	48.276	1.00 19.56	
MOTA	2249	CG	ASP A	367		36.570	33.986	46.950	1.00 21.86	
MOTA	2250	OD1	ASP A	367		36.252	33.299	45.969	1.00 26.50	

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ATOM	2251	OD2	ASP	Α	367		37.556	34.750	46.808	1.00 29.0	13	0
ATOM	2252	С	ASP	Α	367		34.328	32.482	49.740	1.00 18.5		č
ATOM	2253	0	ASP	Α	367		34.810	31.527	50.340	1.00 18.7		. 0
ATOM	2254	N	ALA	Α	368		33.436	33.304	50.291	1.00 17.6		N
ATOM	2256	CA	ALA	Α	368		32.965	33.127	51.656	1.00 17.9		· c
ATOM	2258	CB	ALA	Α	368		32.127	34.347	52.106	1.00 17.8		č
MOTA	2262	С	ALA	Α	368		32.145	31.847	51.823	1.00 17.9		č
ATOM	2263	0	ALA	Α	368		32.291	31.149	52.819	1.00 17.0		ŏ
ATOM	2264	N	GLU	Α	369		31.273	31.572	50.848	1.00 17.9		N
MOTA	2266	CA			369		30.428	30.393	50.849	1.00 17.8		Ċ
MOTA	2268	CB			369		29.392	30.448	49.719	1.00 17.8		č
MOTA	2271	CG	GLU	Α	369		28.197	31.315	50.072	1.00 17.8		Č
MOTA	2274	CD			369		27.368	31.747	48.887	1.00 17.9		Č
MOTA	2275	OE1			369		26.183	32.053	49.081	1.00 19.9		ŏ
MOTA	2276	OE2			369		27.877	31.780	47.764	1.00 16.2		Ö
ATOM	2277	C			369		31.273	29.120	50.784	1.00 17.9		Č
MOTA	2278	0			369		31.062	28.239	51.611	1.00 18.4		Ö
ATOM	2279	N			370		32.237	29.043	49.860	1.00 17.6		N
MOTA	2281	CA			370		33.179	27.919	49.811	1.00 18.4		· C
MOTA	2283	CB			370		34.263	28.083	48.713	1.00 19.4	4	С
MOTA	2286	CG			370		33.924		47.453	1.00 23.1	.4	C
MOTA	2287	CD1					33.476	28.072	46.322	1.00 30.5	57	С
ATOM	2289	CE1			370		33.109	27.405	45.129	1.00 31.4		С
ATOM	2291	CZ			370		33.183	26.031	45.089	1.00 30.4		С
ATOM	2292	OH			370		32.856	25.383	43.933	1.00 34.5		0
ATOM	2294	CE2			370		33.619	25.317	46.197	1.00 29.6		С
MOTA	2296	CD2			370		34.001	25.994	47.374	1.00 25.5		С
ATOM	2298	C			370		33.898	27.711	51.121	1.00 18.0		C
MOTA	2299	0			370		33.884	26.603	51.653	1.00 18.1		0
ATOM ATOM	2300 2302	N			371		34.570	28.759	51.604	1.00 17.4		N
ATOM	2302	CA CB			371		35.332	28.705	52.860	1.00 17.7		C
ATOM	2304	СВ			371 371		35.915 34.483	30.075	53.187	1.00 17.3		C
ATOM	2309	0			371			28.192	54.030	1.00 17.8		C
ATOM	2310	N			372		34.867 33.300	27.264 28.770	54.744	1.00 17.6		0
ATOM	2312	CA			372		32.379	28.770	54.184 55.235	1.00 18.1		N
ATOM	2314	CB			372		31.168	29.301	55.288	1.00 18.1 1.00 18.4		C
ATOM	2317	CG			372		31.388	30.655	55.966	1.00 17.9		C
ATOM	2319		LEU			•	30.261	31.616	55.581	1.00 17.3	•	c
ATOM	2323		LEU				31.503	30.529	57.490	1.00 17.3		C
ATOM	2327	C			372		31.915	26.919	55.066	1.00 18.8		c
ATOM	2328	0			372		31.794	26.203	56.054	1.00 18.9		Ö
ATOM	2329	N			373		31.675	26.473	53.839	1.00 19.1		N
ATOM	2331	CA			373		31.293	25.074	53.601	1.00 19.7		Ċ
MOTA	2333	CB	LEU	A	373		31.049	24.809	52.126	1.00 19.7		Č
MOTA	2336	CG	LEU	Α	373		29.782	24.100	51.665	1.00 21.2		Č
ATOM	2338		LEU				30.074	23.402	50.324	1.00 22.4		Č
MOTA	2342		LEU				29.130	23.141	52.650	1.00 20.5		č
MOTA	2346	C			373		32.383	24.129	54.043	1.00 20.1		Č
ATOM	2347	0			373		32.129	23.098	54.647	1.00 20.9		Ö
ATOM	2348	N			374		33.614	24.476	53.736	1.00 20.6	50	N
ATOM	2350	CA			374		34.753	23.657	54.113	1.00 20.4		С
ATOM	2352	CB	ILE	Α	374		36.018	24.226	53.480	1.00 20.7	'3	С
ATOM	2354		ILE				36.007	23.898	51.988	1.00 20.2		С
ATOM	2357		ILE				37.030	24.646	51.130	1.00 20.3		С
ATOM	2361		ILE				37.272	23.623	54.158	1.00 23.1		С
ATOM	2365	C			374		34.890	23.516	55.626	1.00 20.5		С
MOTA	2366	0			374		35.044	22.411	56.116	1.00 22.2		0
ATOM	2367	N			375		34.835	24.615	56.374	1.00 20.1		N
ATOM ATOM	2369 2371	CA			375		34.859	24.573	57.829	1.00 19.2		C
ATOM	23/1	СВ	WTW	A	375		34.780	25.972	58.370	1.00 19.6	0	С
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ATOM	2375	С	ALA	Α	375	3	33.705	23.743	58.391	1.00	19.34			С
ATOM	2376	0	ALA	Α	375	-	33.849		59.387		19.63			
ATOM	2377	N			376		32.540							0
									57.767		19.42		•	N
MOTA	2379	CA			376		31.390		58.227	1.00	18.80			С
ATOM	2381	CB	ILE	Α	376	3	30.092	23.502	57.515	1.00	17.92		•	С
ATOM	2383	CG1	ILE	Α	376	2	29.576	24.820	58.079		17.49			č
MOTA	2386		ILE				28.585		57.139					
ATOM	2390	CG2	ILE								16.73		•	.C
							28.994		57.695		19.11			С
MOTA	2394	С			376		31.683		57.971	1.00	19.50		•	Ċ
ATOM	2395	0			376	3	31.306	20.773	58.774	1.00	20.11			0
ATOM .	2396	N	ASN .	À	377		32.336		56.847		20.52			N
ATOM	2398	CA	ASN				32.680		56.469		20.93			
ATOM	2400	CB			377	. 3	33.307	10 072					٠٠	C
									55.085		21.62			С
ATOM	2403	CG	ASN				33.690		54.641	1.00	22.72			С
MOTA	2404		ASN			3	32.979	17.837	53.867	1.00	22.99	•		0
ATOM	2405	ND2	ASN	$\mathbf{A}$	377	3	34.812	17.947	55.141		20.87			N
ATOM	2408	С	ASN				33.671		57.433		21.11			Ĉ
ATOM	2409	ō			377		33.517							
ATOM									57.869		21.98	•		٥,
	2410	N			378		34.672		57.783		21.41			N
ATOM	2412	CA			378		35.681		58.758	1.00	21.93			С
ATOM	2414	CB	ILE	A	378	3	36.697	20.853	58.960		21.86			C
ATOM	2416	CG1	ILE	Α	378		37.633		57.757		21.82		•	č
MOTA	2419	CD1	ILE				38.474		57.746					
ATOM	2423		ILE								23.11			C
							37.536		60.215		23.23			С
ATOM	2427	C			378		35.086		60.094	1.00	21.90			С
ATOM	2428	0			378		35.470		60.642	1.00	22.53			0
MOTA	2429	N	PHE	A	379	3	34.168	20.086	60.630		21.90			N
ATOM	2431	CA	PHE	Α	379		33.632		61.970		21.69			c
ATOM	2433	CB			379		33.313		62.711					
ATOM	2436	CG			379						21.31			С
							34.536		62.992		21.12			С
ATOM	2437		PHE				34.639		62.499	1.00	21.16			С
· MOTA	2439	CE1	PHE				35.771		62.745	1.00	21.97			С
ATOM	2441	CZ	PHE	Α	379	3	36.806	23.504	63.484	1.00	21.44			Ċ
ATOM	2443	CE2	PHE				36.715		63.981		19.78			č
MOTA	2445		PHE				35.587							_
ATOM	2447	C							63.733		21.14			C
					379		32.398		61.907		21.30			С
ATOM	2448	0			379		31.353		62.396	1.00	21.90			0 .
ATOM	2449	N			380	3	32.517	17.758	61.310	1.00	20.97			N
ATOM	2451	CA	SER	Α	380	3	31.407	16.796	61.282	1.00	21.44			С
ATOM	2453	CB	SER	Α	380	3	31.307		59.944		21.03	•		Č
ATOM	2456	OG			380		31.393		58.889		23.07			ŏ
ATOM	2458	C			380		31.656							
ATOM	2459				380				62.382		21.42			С
		0.					32.626		62.340		21.37			0
MOTA	2460	N	ALA				30.781		63.376	1.00	22.21			N
MOTA	2462		ALA			3	31.019	15.021	64.579	1.00	22.72			С
MOTA	2464	CB ·	ALA	Α	381	3	30.066	15.461	65.667		23.12			Ċ
ATOM	2468	С	ALA				30.879		64.339		23.30			Č
MOTA	2469	0	ALA				31.284		65.200					
ATOM	2470										24.29			0
		N	ASP				30.309		63.195		23.11			N
ATOM	2472	CA	ASP	A	382		30.071		62.904	1.00	23.18			С
MOTA	2474	СВ	ASP			2	28.734	11.504	62.202	1.00	23.26			С
ATOM	2477	CG	ASP	Α	382	2	28.698	12.110	60.819		25.57			Č
ATOM .	2478	OD1	ASP	Α	382		29.572		60.478		24.08			ŏ
ATOM	2479	OD2	ASP	Ά	382		27.781		60.010		29.55			
ATOM	2480	C	ASP	7	302									0
							31.180		62.111		23.20			С
MOTA	2481	0	ASP				30.988		61.646		23.89			0
MOTA	2482	N	ARG			3	32.347	11.628	61.974	1.00	22.57		•	N
ATOM	2484	CA	ARG	Α	383	3	33.500		61.312		21.50			C
MOTA	2486	CB	ARG				34.667		61.218		21.27			č
ATOM	2489	CG	ARG				34.340		60.528				•	
ATOM	2492	CD	ARG				33.831				21.52			C
-11-01-1		OD	מונה	7	202	-	. OJI	13.113	<b>59.123</b> .	T.00	21.58			С

ATOM	2495	NE	ARG	Δ	383	33.970	14.264	58.250	1.00 21.	75		N
ATOM	2497	CZ	ARG			33.653	14.244	56.958	1.00 21.			
ATOM	2498		ARG			33.204	13.131					C
								56.393	1.00 19.			N
MOTA	2501		ARG			33.781	15.343	56.222	1.00 23.			N
MOTA	2504	С	ARG			33.936	9.810	62.129	1.00 21.			C
ATOM	2505	0	ARG	Α	383	33.719	9.770	63.334	1.00 21.	47		0
MOTA	2506	N	PRO	Α	384	34.564	8.834	61.502	1.00 20.	88		N
ATOM	2507	CA	PRO	Α	384	35.176	7.721	62.241	1.00 21.	10		C
MOTA	2509	CB	PRO			35.890	6.914	61.146	1.00 21.			Č
ATOM	2512	CG	PRO			35.280	7.338	59.855	1.00 21.			c
ATOM	2515	CD	PRO			34.712	8.700	60.046				
									1.00 20.			C
ATOM	2518	C	PRO			36.222	8.149	63.278	1.00 21.			С
MOTA	2519	0	PRO			37.054	9.026		1.09 21.			0
ATOM	2520	N	ASN			36.188	7.513	64.445	1.00 21.	55		N
MOTA	2522	CA	ASN	A	385	37.226	7.665	65.488	1.00 21.	22		С
ATOM	2524	CB	ASN	Α	385	38.619	7.375	64.905	1.00 21.	33		С
ATOM	2527	CG	ASN	Α	385	38.708	5.977	64.310	1.00 20.			С
ATOM	2528	OD1	ASN	Α	385	38.458	5.013	65.008	1.00 22.			ŏ
ATOM	2529		ASN			39.017	5.867	63.026	1.00 17.			N
ATOM	2532	C	ASN			37.233	8.991		1.00 20.			
ATOM	2533	ŏ	ASN			38.190	9.282	66.922	1.00 20.			Ċ
												0
ATOM	2534	N	VAL			36.158	9.774	66.177	1.00 20.			N
ATOM	2536	CA	VAL			36.042	10.996	66.964	1.00 20.			C
MOTA	2538	CB	VAL			35.027	11.967	66.340	1.00 20.			C
ATOM	2540		VAL			34.755	13.131	67.264	1.00 20.	90		C
ATOM	2544	CG2	VAL	Α	386	35.552	12.486	64.983	1.00 20.	31		С
ATOM	2548	С	VAL	A	386	35.673	10.695	68.430	1.00 20.	67		С
ATOM	2549	0	VAL	A	386	34.735	9.950	68.720	1.00 20.			0
ATOM	2550	N	GLN			36.410	11.309	69.344	1.00 20.			N
ATOM	2552	CA	GLN			36.303	11.018	70.771	1.00 21.			Ĉ
ATOM	2554	CB	GLN			37.668	11.084	71.458	1.00 21.			c
ATOM	2557	CG	GLN			38.837	10.601	70.615	1.00 21.			~
												C
ATOM	2560	CD			387	39.596	9.483	71.255	1.00 25.			C
ATOM	2561		GLN			38.994	8.517	71.705	1.00 29.			0
ATOM	2562	NE2				40.924	9.598	71.292	1.00 27.			N
ATOM	2565	С			387	35.391	12.007	71.455	1.00 20.		*	С
ATOM	2566	0	GLN	A	387	34.745	11.659	72.413	1.00 20.	97		0
MOTA	2567	N	GLU	A	388	35.335	13.227	70.945	1.00 20.	17		N
MOTA	2569	CA	GLU	A	388	34.566	14.301	71.551	1.00 20.	02		C
MOTA	2571	CB	GLU	Α	388	35.526	15.372	72.037	1.00 20.	38		С
ATOM	2574	CG			388	36.601	14.797	72.937	1.00 21.			Č
ATOM	2577	CD			388	37.233	15.860	73.794	1.00 24.			Č
MOTA	2578		GLU			37.975	16.680	73.239	1.00 27.			ŏ
ATOM	2579		GLU			36.976	15.885	75.008	1.00 27.			Ö
ATOM	2580	C			388	33.591			1.00 23.			C
			GLU									
ATOM	2581	0				33.710	16.011	70.126	1.00 18.			0
ATOM	2582	N			389	32.632	14.056	70.107	1.00 19.			N
ATOM	2583	CA			389	31.691	14.477	69.063	1.00 19.			C
MOTA	2585	СВ			389	30.836	13.208	68.812	1.00 20.			C
MOTA	2588	CG			389	30.992	12.348	70.066	1.00 19.	. 37		С
ATOM	2591	CD	PRO	Α	389	32.374	12.668	70.564	1.00 19.	24		С
ATOM	2594	С	PRO	Α	389	30.838	15.675	69.482	1.00 19.	. 37		С
MOTA	2595	0	PRO	Α	389	30.576	16.559	68.644	1.00 19.			0
MOTA	2596	N			390	30.420	15.718	70.742	1.00 19.			N
ATOM	2598	CA			390	29.702	16.866	71.267	1.00 18.			Ĉ
MOTA	2601	C			390	30.465	18.182	71.091	1.00 19.			c
ATOM	2602	ŏ			390	29.873	19.229	70.755	1.00 19			Ö
ATOM	2603	N			391	31.770	18.158	71.346	1.00 19			
ATOM	2605	CA										N
					391	32.605	19.344	71.106	1.00 19.			C
ATOM ATOM	2607	CB CG			391	33.995	19.139	71.680	1.00 20			C
A.LUM	_2610_		AKG	_ <u>A</u>	391	33.984	18.973	73.171	1.00 23	. 13	<del></del>	С

ATOM	2613	CD	ARG .	A	391		35.374	18.976	73.748	1.00 28.60	С
ATOM	2616	NE	·ARG	Α	391		36.026	20.260	73.495	1.00 31.62	N
MOTA		CZ	ARG .				37.335	20.439	73.329	1.00 33.77	C
ATOM	2619		ARG .				38.191	19.412	73.360	1.00 33.29	N
ATOM	2622		ARG			•	37.788	21.673	73.139	1.00 34.43	N
ATOM	2625	С	ARG				32.737	19.725 ·	69.632	1.00 19.01	С
ATOM	2626	0	ARG				32.721	20.900	69.304	1.00 18.13	0
ATOM	2627	N	VAL			•	32.890	18.725	68.757	1.00 19.26	N
MOTA	2629	CA	VAL				33.046	18.963	67.328	1.00 19.48	С
ATOM	2631	CB	VAL				33.342	17.673	66.560	1.00 19.79	C
ATOM	2633		VAL				33.239	17.903	65.035	1.00 19.28	С
ATOM	2637		VAL				34.711	17.159	66.908	1.00 19.99	C
ATOM	2641	.C	VAL				31.777	19.603	66.769	1.00 19.62	
ATOM	2642	0	VAL				31.831	20.535	65.999	1.00 19.42	0
ATOM	2643	N	GLU				30.642	19.100	67.198	1.00 20.52	N C C
ATOM	2645	CA	GLU				29.347	19.608	66.793	1.00 21.87	C
MOTA	2647	CB	GLU				28.248	18.672	67.314	1.00 22.09	C
MOTA	2650	CG	GLU				26.863	19.094	66.918	1.00 25.31	C
ATOM	2653	CD	GLU				25.910	17.906		1.00 31.55	C _
ATOM	2654		GLU				25.791	17.278	65.761	1.00 35.01	Ö
ATOM ·	2655	OE2					25.299	17.600	67.889	1.00 29.86	0
ATOM .	2656	C	GLU				29.106	21.018	67.326	1.00 21.32	. C
ATOM	2657	0	GLU				28.547	21.851	66.618	1.00 21.71	0
ATOM ATOM	2658 2660	N CA	ALA ALA				29.513 29.487	21.266 22.622	68.568 69.140	1.00 20.57 1.00 20.63	N
ATOM	2662	CB	ALA				29.467	22.622	70.604	1.00 20.83	C
ATOM	2666	СБ	ALA				30.311	23.610	68.336	1.00 20.34	c
ATOM	2667	Ö	ALA				29.905	24.737	68.177	1.00 20.23	Ö
ATOM	2668	N	LEU				31.461	23.190	67.822	1.00 20.50	, O.
ATOM	2670	CA	LEU				32.321	24.064	66.995	1.00 20.42	Č
ATOM	2672	CB	LEU				33.735	23.485	66.916	1.00 20.95	č
ATOM	2675	CG	LEU				34.556	23.430	68.201	1.00 21.40	Č
ATOM	2677		LEU				35.821	22.577	68.001	1.00 22.05	C
ATOM	2681		LEU			•	34.909	24.806	68.674	1.00 22.08	С
ATOM	2685	С			395		31.814	24.286	65.564	1.00 20.04	С
MOTA	2686	0	LEU	Α	395		32.072	25.331	64.962	1.00 20.55	0
MOTA	2687	N	GLN	Α	396		31.114	23.299	65.022	1.00 19.81	N
ATOM	2689	CA			396		30.460	23.425	63.726	1.00 19.89	C
MOTA	2691	CB			396		29.816	22.092	63.308	1.00 19.46	С
ATOM	2694	CG			396		29.349	22.087	61.880	1.00 20.05	C.
MOTA	2697	CD			396		28.547	20.868	61.512	1.00 20.76	C
MOTA	2698		GLN				28.946	20.093	60.639	1.00 20.87	0
MOTA	2699	NE2			396		27.415	20.701	62.155	1.00 19.29	N
ATOM	2702	C			396		29.350	24.466	63.745	1.00 20.14	C
ATOM	2703	0			396		29.106	25.131	62.739	1.00 19.96	0
MOTA	2704 2706	N CA			397 397		28.666 27.486	24.573 25.435	64.883 65.013	1.00 20.08	N
ATOM ATOM	2708	CB			397		26.953	25.404	66.461	1.00 20.81 1.00 21.11	C
ATOM	2711	CG			397		25.829	26.375	66.731	1.00 21.11	C
MOTA	2714	CD			397		25.275	26.284	68.143	1.00 25.12	C
ATOM	2715		GLN				25.037	27.319	68.798	1.00 23.12	Ö
ATOM	2716	NE2			397		25.059	25.069	68.614	1.00 24.96	Й
ATOM	2719	C			397		27.676	26.899	64.538	1.00 19.94	Ċ
ATOM	2720	ō			397		26.883	27.373	63:738	1.00 20.40	Ö
ATOM	2721	N			398		28.677	27.616	65.020	1.00 18.90	· N
ATOM	2722	CA			398		28.857	29.018	64.614	1.00 19.15	C
ATOM	2724	CB			398		30.007	29.512	65.507	1.00 18.85	č
ATOM	2727	CG			398		30.743	28.277	65.909	1.00 20.07	
MOTA	2730	CD			398		29.657	27.204	66.034	1.00 19.69	Ċ
MOTA	2733	С			398		29.167	29.251	63.119	1.00 18.91	C
MOTA	2734	0	PRO	A	398		28.857	30.307	62.568	1.00 17.18	0

ATOM	2735	N	TYR	Δ	399	29.774	28.259	62.484	1 00	10 60		
ATOM	2737	CA			399					19.69		N
	•					30.012	28.289	61.040		19.26		С
MOTA	2739	СВ			399	31.049	27.222	60.671	1.00	19.22		С
ATOM	2742	CG		A	399	32.415	27.587	61.189	1.00	18.15		С
ATOM	2743	CD1	TYR	Α	399	32.936	26.967	62.292		17.16		Č
MOTA	2745	CE1	TYR	Α	399	34.165	27.340	62.790		19.02		
ATOM	2747	CZ			399	34.894					•	C
ATOM	2748	OH					28.332	62.166		18.35		C
					399	36.116	28.686	62.661	1.00	17.87		0
ATOM	2750	CE2	TYR			34.388	28.977	61.073	1.00	18.04		С
MOTA	2752	CD2	TYR	Α	399	33.148	28.613	60.602		18.73		Č
ATOM	2754	С	TYR	Α	399	28.701	28.069	60.293		19.80		č
ATOM	2755	Ō			399	28.463	28.654					
ATOM	2756	N						59.241		19.18		0
			VAL			27.837	27.225	60.843		20.31		N
ATOM	2758	CA	VAL			26.541	27.011	60.241	1.00	20.60		С
MOTA	2760	CB	VAL	Α	400	25.830	25.790	60.824	1.00	21.06		С
ATOM	2762	CG1	VAL	Α	400	24.389	25.645	60.234		21.52		č
ATOM	2766	CG2	VAL	Α	400	26.612	24.533	60.510		22.13		č
ATOM	2770	С			400	25.700	28.279	60.390				Č
ATOM	2771	ŏ			400					20.94		C
						25.079	28.693	59.414		20.92	•	0
ATOM	2772	Ŋ	GLU			25.682	28.885	61.585	1.00	20.87		N
ATOM	2774	CA	GLU			24.985	30.170	61.810	1.00	21.54		.C
MOTA	2776	CB	GLU	Α	401	25.136	30.691	63.261	1.00	21.83		Č
MOTA	2779	CG	GLU	Α	401	24.475	29.824	64.338		25.56		č
MOTA	2782	CD	GLU			24.990	30.068	65.784				<u> </u>
ATOM	2783		GLU			25.925				29.57		C
ATOM	2784		GLU				30.868	65.976		31.30		0
						24.467	29.437	66.753		31.62		0
MOTA	2785	C	GLU			25.499	31.246	60.872	1.00	20.55		C
ATOM	2786	0			401	24.730	32.022	60.316	1.00	20.34		0
ATOM	2787	N	ALA	A	402	26.809	31.288	60.677	1.00	20.10		N
MOTA	2789	CA	ALA	Α	402	27.407	32.335	59.848		19.57		Ċ
ATOM	2791	CB	ALA			28.900	32.391	60.054		19.31		
ATOM	2795	C			402.	27.058	32.159					C
ATOM	2796	Ö	ALA					58.374		19.18		С
						26.887	33.131	57.651		19.24		0
ATOM	2797	N	LEU			26.913	30.920	57.936		19.59		N
ATOM	2799	CA	LEU			26.528	30.647	56.568	1.00	20.27		C
MOTA	2801	CB	LEU			26.823	29.204	56.201	1.00	20.37		C
MOTA	2804	CG	LEU	A	403	26.459	28.814	54.774		21.69		Č
ATOM	2806	CD1	LEU			27.279	29.594	53.750		21.45		Č
ATOM	2810		LEU			26.646	27.298	54.582		24.93		Č
ATOM	2814	C	LEU									С
MOTA						25.052	30.962	56.353		20.94		C
	2815	0	LEU			24.664	31.443	55.290		21.36		0
ATOM	2816	N	LEU			24.234	30.697	57.362	1.00	21.38		N
MOTA	2818	CA	LEU	Α	404	22.818	31.015	57.297	1.00	22.19		C
MOTA	2820	CB	LEU	Α	404	22.133	30.528	58.566		22.76		C
MOTA	2823	CG	LEU	A	404	20.627	30.693	58.686		25.06		c
MOTA	2825		LEU			19.934	30.227	57.408		27.19		
MOTA	2829		LEU			20.151	29.882					C
ATOM	2833	C	LEU					59.900		27.37		C
						22.625	32.534	57.122		21.70		C
ATOM	2834	0	LEU			22.002	32.975	56.168		21.60		0
MOTA	2835	N	SER			23.195	33.319	58.031	1.00	21.30		N
MOTA	2837	CA	SER	Α	405	23.169	34.778	57.943		20.95		C
ATOM	2839	CB	SER	Α	405	23.898	35.380	59.123		21.13		Č
MOTA	2842	OG	SER			23.248	34.989	60.299		23.32		
ATOM	2844	c	SER			23.796	35.324	56.679	1 00	20.02		0
ATOM	2845	Ö	SER							20.23	•	С
						23.283	36.246	56.110		20.11		0
ATOM	2846	N	TYR			24.905	34.757	56.235		20.19		N
ATOM	2848	CA	TYR			25.554	35.275	55.037	1.00	20.26		C
ATOM	2850	CB	TYR			26.921	34.616	54.808		20.03		C
MOTA	2853	CG	TYR			27.677	35.166	53.628		17.48		Č
ATOM	2854		TYR			28.569	36.203	53.766		17.11		Č
_ATOM	2856_	CE1				29.248	36.732	52.656		15.31		C
						 	20.102	52.000	1.00	10.01		

ATOM	2858	CZ	TYR .				29.050	36.154	51.417		14.97			С
MOTA	2859	ОН	TYR .				29.700	36.603	50.291		12.86			0
ATOM	2861	CE2	TYR .				28.182	35.116	51.282		14.49		•	С
MOTA	2863		TYR .				27.509	34.625	52.377	1.00	15.94	•		С
ATOM .	2865	C	TYR .				24.624	35.120	53.829	1.00	20.61			C.
ATOM ·	2866	0	TYR .				24.381	36.074	53.095		19.54			0
MOTA	2867	N	THR .				24.073	33.924	53.652		21.38			. N
ATOM	2869	CA	THR .				23.150	33.680	52.531		21.34			C
ATOM	2871	CB	THR .				22.887	32.191	52.342		20.99			С
ATOM	2873		THR .				22.439	31.609	53.558		19.37			0
ATOM	2875		THR .				24.193	31.441	52.047		21.26			С
MOTA	2879	C	THR .				21.852	34.474	52.632		22.27			C
ATOM	2880	0	THR .			•	21.327	34.862			21.70			0
MOTA	2881	N	ARG .				21.359	34.748	53.840		24.06			N
ATOM	2883	CA	ARG .				20.162	35.581	54.018		25.87			С
ATOM	2885	CB	ARG .				19.713	35.615	55.484		26.81			С
ATOM	2888	CG	ARG .				18.703	34.539	55.906		31.03			C ´
ATOM	2891	CD	ARG .				18.843	34.084	57.386		36.58			C
MOTA	2894	NE	ARG .				17.578	34.128	58.139		40.80			N C
ATOM	2896	CZ	ARG				16.691	33.125	58.214		45.77			
ATOM .	2897		ARG				16.903	31.965	57.576		48.06			N
	2900		ARG				15.573	33.278	58.927		46.91			N
MOTA MOTA	2903	C	ARG				20.412	37.026	53.568		26.33			C
ATOM	2904 2905	O	ARG				19.545	37.660	52.972		25.83			0
ATOM	2907	N CA	ILE				21.600	37.548	53.862		27.14			N
ATOM	2909	CB				•	21.931	38.933	53.524		27.95			C
	2909		ILE				22.948	39.502	54.544		28.07			C
ATOM ATOM	2911	CD1					22.378	39.380	55.969		28.89			C
ATOM	2914		ILE				23.421	39.279	57.074		29.04			C
ATOM	2922	C			409		23.287 22.435	40.965	54.207		27.74			C
MOTA	2923	ŏ	ILE				22.455	39.106	52.069		28:50			C
ATOM	2924	N	LYS				23.261	40.064 38.167	51.386		27.67		•	0
ATOM	2926	CA	LYS				23.895	38.251	51.608 50.302		29.16 30.15			И
ATOM	2928	CB	LYS				25.247	37.506	50.302		30.13			C
ATOM	2931	CG	LYS				26.062	37.547	48.967		33.21			c
ATOM	2934	CD	LYS				26.430	36.112	48.413		35.52			C
ATOM	2937	CE	LYS				26.557	36.067	46.877		36.92			Č
ATOM	2940	NZ	LYS				25.850	34.904	46.256		37.82			N
ATOM	2944	C	LYS				22.970	37.748	49.193		30.35			C
MOTA	2945	Õ	LYS				23.070	38.214	48.058		30.24			õ
ATOM	2946	N	ARG				22.051	36.833	49.509		30.70			N
ATOM	2948	CA	ARG				21.067	36.362	48.517		31.19			C
ATOM	2950	СВ	ARG				21.466	34.987	47.970		31.83			č
MOTA	2953	CG	ARG				22.694	34.988	47.043		35.36			č
ATOM	2956	CD	ARG	Α	411		23.101	33.573	46.543		40.08			Č
MOTA	2959	NE	ARG				23.290	33.462	45.081		42.67			N
ATOM	2961	CZ	ARG				22.310	33.545	44.163		43.67			C
MOTA	2962	NH1	ARG	Α	411		21.040	33.758	44.521		43.02			N
ATOM	2965	NH2	ARG				22.609	33.417	42.869		43.56			N
ATOM	-2968	С	ARG				19.656	36.304	49.105		30.61			. C
ATOM	2969	0	ARG				19.099	35.236	49.317	1.00	29.92			0
MOTA	2970	N	PRO				19.063	37.461	49.349	1.00	30.71			N
ATOM	2971	CA	PRO				17.830	37.526	50.136	1.00	30.88			C
ATOM	2973	CB	PRO				17.654	39.027	50.371	1.00	30.84			C
MOTA	2976	CG	PRO				18399	39.681	49.265		30.56			С
ATOM	2979	CD	PRO				19.507	38.787	48.886		30.44			С
MOTA	2982	С	PRO				16.590	36.922	49.444	1.00	31.46			С
ATOM	2983	0	PRO				15.656	36.514	50.154		31.62	_		. 0
ATOM	2984	N	GLN				16.586	36.855	48.109		31.46	•		N
ATOM	2986	CA	GLN	Α	413		15.450	36.308	47.363	1.00	31.54			. <b>C</b>

ATOM	2988	CB	GLN	Δ	413	15.047	37.265	46 225	1 00 21 75	
ATOM	2991	CG	GLN			14.186	38.451	46.225	1.00 31.75	С
ATOM	2994	CD			413	12.697		46.677	1.00 32.45	C
ATOM	2995	OE1	GLN				38.121	46.787	1.00 33.94	С
ATOM	2996	NE2	GLN			11.901 12.315	38.467	45.903	1.00 34.73	0
ATOM	2999	C			413		37.478	47.885	1.00 34.89	N
ATOM	3000					15.690	34.878	46.829	1.00 31.36	C
		0	GLN			14.913	34.383	46.013	1.00 31.27	0
ATOM	3001	N	ASP			16.754	34.220	47.305	1.00 31.27	N
ATOM	3003	CA	ASP			16.985	32.786	47.074	1.00 30.71	. С
ATOM	3005	CB	ASP			18.280	32.560	46.309	1.00 31.02	C
ATOM	3008	CG	ASP			18.531	31.093	46.011	1.00 31.49	C
MOTA	3009		ASP			17.565	30.318	45.914	1.00 30.43	0
ATOM	3010		ASP			19.675	30.626	45.858	1.00 35.74	Ō
ATOM	3011	С	ASP	Α	414	17.011	32.013	48.395	1.00 29.99	Ċ
ATOM	3012	0	ASP	Α	414	18.053	31.757	48.972	1.00 30.08	Ö
ATOM	3013	N	GLN	Α	415	15.825	31.637	48.835	1.00 29.76	N
ATOM	3015	CA	GLN	A	415	15.558	30.998	50.121	1.00 29.41	Ċ
ATOM	3017	CB	GLN	Α	415	14.022	30.850	50.207	1.00 30.33	C
ATOM	3020	CG	GLN	Α	415	13.436	30.284	51.497	1.00 33.12	C
ATOM	3023	CD	GLN			11.907	30.459	51.562	1.00 36.96	
ATOM	3024	OE1				11.336	30.617	52.650	1.00 40.03	Ċ
ATOM	3025	NE2	GLN			11.248	30.432	50.397	1.00 38.38	0
ATOM	3028	C	GLN			16.252	29.639	50.270	1.00 38.38	И
ATOM	3029	ō	GLN			16.727	29.292	51.340	1.00 27.79	C
ATOM	3030	N	LEU			16.335	28.887	49.179	1.00 27.83	0
ATOM	3032	CA	LEU			16.873	27.521	49.179		N
ATOM	3034	CB	LEU			16.172	26.680	48.121	1.00 25.86	C
ATOM	3037	CG	LEU			14.650			1.00 25.70	C
ATOM	3039	CD1	LEU				26.622	48.262	1.00 25.24	C
ATOM	3043	CD2	LEU			14.069	25.860	47.119	1.00 24.23	С
ATOM	3043					14.276	25.986	49.577	1.00 25.64	C.
ATOM	3047	C	LEU			18.381	27.417	48.970	1.00 25.39	C
ATOM		0	LEU			18.920	26.315	48.870	1.00 25.50	0
	3049	N	ARG			19.040	28.562	48.846	1.00 24.30	N
ATOM	3051	CA	ARG			20.480	28.648	48.700	1.00 23.93	C
ATOM	3053	CB	ARG			20.904	30.109	48.968	1.00 24.83	C
MOTA	3056	CG	ARG			21.901	30.674	48.016	1.00 26.61	C
MOTA	3059	CD	ARG			23.170	29.934	47.979	1.00 29.59	C
ATOM	3062	NE	ARG			24.219	30.705	47.300	1.00 31:46	N
ATOM	3064	CZ	ARG			24.563	30.566	46.028	1.00 32.48	C
ATOM	3065		ARG			23.923	29.718	45.218	1.00 31.64	N
ATOM	3068		ARG			25.561	31.297	45.560	1.00 35.09	N
MOTA	3071	С	ARG			21.189	27.809	49.740	1.00 22.27	С
MOTA	3072	0	ARG			22.056	27.006	49.463	1.00 22.01	0
ATOM	3073	N	PHE			20.832	28.087	50.966	1.00 20.58	N
ATOM	3075	CA	PHE			21.497	27.534	52.085	1.00 20.58	С
MOTA	3077	CB	PHE			20.929	28.221	53.334	1.00 20.56	С
MOTA	3080	CG	PHE			21.459	27.688	54.603	1.00 21.90	C
ATOM	3081		PHE			22.804	27.730	54.866	1.00 22.80	C
ATOM	3083		PHE			23.301	27.249	56.078	1.00 24.14	Ċ
ATOM	3085	CZ	PHE	Α	418	22.445	26.710	57.020	1.00 22.87	Č
ATOM	3087	CE2	PHE	Α	418	21.104	26.667	56.766	1.00 24.34	Č
ATOM	3089	CD2	PHE	A	418	20.607	27.160	55.557	1.00 24.46	č
MOTA	3091	С	PHE			21.344	25.993	52.093	1.00 19.91	č
ATOM	3092	0	PHE			22.341	25.280	52.142	1.00 19.56	Õ
MOTA	3093	N	PRO			20.113	25.482	52.036	1.00 18.94	N
MOTA	3094	CA	PRO			19.937	24.034	51.997	1.00 18.75	C
ATOM	3096	CB	PRO			18.399	23.841	52.040	1.00 18.73	c
ATOM	3099	CG	PRO			17.805	25.158	51.682	1.00 18.39	
ATOM	3102	CD	PRO			18.813	26.194	52.076		C
ATOM	3105	C	PRO			20.570	23.371	50.779	1.00 18.47 1.00 18.68	
ATOM	3106	ŏ	PRO			21.038	22.275	50.779		C
		<u> </u>						30.323	1.00 17.29	0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3107 3109 3111 3114 3117 3120 3122 3123 3126 3129 3130	NH2 C	ARG ARG ARG ARG ARG ARG ARG ARG	A A A A A A A A	420 420 420 420 420 420 420 420 420	20.604 21.293 21.115 19.738 19.688 18.507 18.369 19.334 17.267 22.776	24.001 23.391 24.220 24.126 24.371 25.153 26.451 27.127 27.088 23.220	49.618 48.482 47.208 46.596 45.091 44.721 44.979 45.584 44.623 48.789	1:00 1:00 1:00 1:00 1:00 1:00 1:00	19.60 20.80 21.78 23.43 27.38 28.41 30.57 31.62 32.90 21.08	. •		исссисиис
ATOM	3131	O N	ARG MET	A	421	23.384 23.359	22.202 24.179	48.436 49.502	1.00	21.37 21.52		٠.	И
ATOM	3133	CA	MET			24.789	24.086	49.848		21.36			C
ATOM ATOM	3135	CB	MET			25.274	25.382	50.493		21.17			C
	3138	CG	MET			25.343	26.476	49.534		23.46			С
ATOM	3141	SD	MET			25.907	27.975	50.266		26.15			S
ATOM	3142	CE	MET			27.451	27.516	51.009		26.23			C.
ATOM	3146	C	MET			25.065	22.927	50.794		20.75	•		С
ATOM ATOM	3147	O N	MET			25.982	22.134	50.582		18.82			0
ATOM	3148	N	LEU			24.303	22.882	51.878		21.18			Ŋ
ATOM	3150 3152	CA	LEU			24.394	21.749	52.801		21.92			C
ATOM	3155	CB CG	LEU			23.453	21.908	54.002		21.86			C
ATOM	3157		LEU			23.727 22.756	23.166 23.247	54.819		23.07			C
ATOM	3161		LEU			25.168	23.247	55.989 55.326		24.63			C
ATOM	3165	C			422	24,156	20.430	52.081		25.26 21.25			C
ATOM	3166	Ö			422	24.808	19.472	52.403		22.05			C
ATOM	3167	N	MET			23.308	20.382	51.066		21.30			N
MOTA	3169	CA			423	23.081	19.119	50.330		22.24			C
ATOM	3171	СВ	MET			21.931	19.232	49.313		23.34			c
ATOM	3174	CG	MET			20.567	19.696	49.843		28.24			C
ATOM	3177	SD	MET	A	423	19.535	18.438	50.632		35.70			Š
ATOM	3178	CE	MET	Α	423	20.458	18.220	52.061		33.45			Č
ATOM	3182	С	MET			24.301	18.610	49.558		21.01			C
ATOM	3183	0	MET			24.358	17.438	49.194	1.00	21.62			Ö
ATOM	3184	N	LYS			25.233	19.496	49.238	1.00	18.97			N
ATOM	3186	CA	LYS			26.509	19.095	48.662		17.89			C
ATOM	3188	CB	LYS			27.290	20.310	48.155		17.59			C
MOTA	3191	CG	LYS			26.594	21.018	46.988		18.56			C
ATOM ATOM	3194 3197	CD CE	LYS			26.467	20.113	45.762		19.26			C
ATOM	3200	NZ	LYS			25.693	20.769	44.631		20.40			C
ATOM	3204	C	LYS			25.020 27.372	19.777 .18.290	43.751 49.622		21.19			N
ATOM	3205	Ö	LYS			28.179	17.473	49.186		16.82 16.71			C
ATOM	3206	N	LEU			27.217	18.529	50.923					N
ATOM	3208	CA	LEU			27.866	17.722	51.925		15.25			C
MOTA	3210	CB	LEU			27.639	18.323	53.316		15.87			č
MOTA	3213	CG	LEU	Α	425	28.185	19.728	53.664		16.61			č
MOTA	3215		LEU			27.714	20.115	55.047		17.81			Č
MOTA	3219	CD2	LEU			29.689	19.777	53.638		17.71			č
ATOM	3223	С			425	27.367	16.266	51.846		15.24			С
ATOM	3224	0			425	28.117	15.346	52.119	1.00	15.24			0
ATOM	3225	N			426	26.103	16.064	51.470		14.71			N
ATOM	3227	CA			426	25.576	14.726	51.249		14.48			С
ATOM	3229	CB			426	24.041	14.703	50.975		13.91			С
ATOM	3231		VAL			23.580	13.309	50.838		13.11			С
ATOM	3235		VAL			23.228	15.408	52.101		14.22			С
ATOM ATOM	3239	C			426	26.263	14.040	50.077		15.09			С
ATOM	3240 3241	O N			426	26.597	12.852	50.171		14.93			0
MOTA	3241	N CA			427 427	26.374	14.758	48.950		15.49	•		N
111013		OA	JEK	A	461	27.035	14.272	47.736	1.00	15.56			С

ATOM	3245	СВ	SER	Α	427	27.087	15.387	46.694	1 00	15.86		_
ATOM	3248	OG	SER			25.829	15.628	46.117		18.97		C
ATOM	3250	C	SER			28.483	13.883	48.043		15.75		0 C
MOTA	3251	0	SER			28.965	12.837	47.616		15.74		õ
MOTA	3252	N	LEU	A	428	29.163	14.730	48.806		15.28		N
ATOM	3254	CA	LEU	Α	428	30.518	14.463	49.183		16.34		Č
MOTA	3256	CB	LEU	Α	428	31.104	15.660	49.935		16.46		Č
MOTA	3259	CG	LEU			31.367	16.893	49.096		16.94		Č
MOTA	3261		LEU			31.746	18.004	50.036	1.00	19.53		C
ATOM	3265		LEU			32.479	16.617	48.078		16.50		С
ATOM	3269	С	LEU			30.699	13.199	50.022		16.91		С
ATOM	3270	0	LEU			31.729	12.536	49.880		16.87		0
ATOM	3271	N	ARG			29.754	12.872	50.916		17.30		N
ATOM	3273	CA	ARG			29.880	11.617	51.670		17.91		C
ATOM	3275	CB	ARG			28.730	11.374	52.612		18.11		С
ATOM ATOM	3278	CG	ARG			28.861	11.936	53.873		19.58		С
ATOM	3281 3284	CD	ARG			30.164	11.661	54.641		21.53		С
ATOM	3286	NE CZ	ARG ARG			30.184	12.737	55.630		21.34		N
ATOM	3287		ARG			29.809 29.501	12.585	56.872		19.67		C
ATOM	3290		ARG			29.784	11.405 13.633	57.320		16.91	•	N
ATOM	3293	C	ARG			29.885	10.424	57.677 50.759		24.69 18.03		Ŋ
ATOM	3294	ŏ	ARG			30.661	9.500	50.739		19.08		C
ATOM	3295	N	THR			28.964	10.413	49.814		17.59		N O
MOTA	3297	CA	THR			28.948	9.365	48.810		17.28		C
ATOM	3299	СВ	THR			27.691	9.495	47.972		16.89		C
ATOM	3301	OG1	THR			26.552	9.207	48.793		16.44		Õ
MOTA	3303		THR			27.647	8.457	46.895		16.72		Č
MOTA	3307	С	THR	Α	430	30.216	9.384	47.921		17.34		č
ATOM	3308	0	THR	A	430	30.728	8.343	47.576		18.01		Ö
MOTA	3309	N	LEU	Α	431	30.718	10.550	47.541		17.45		N
MOTA	3311	CA	LEU			31.968	10.598	46.758	1.00	17.22		С
MOTA	3313	CB	LEU			32.272	12.015	46.336	1.00	16.74		С
MOTA	3316	CG	LEU			31.800	12.552	44.966		16.62		С
ATOM	3318		LEU			31.263	11.522	44.010		15.12		С
ATOM	3322		LEU			30.838	13.686	45.134		14.98		С
MOTA	3326	C	LEU			33.159	10.006	47.554		17.29		С
ATOM ATOM	3327 3328	N O	LEU SER			34.049	9.402	47.004		16.51		0
ATOM	3330	CA	SER			33.108	10.131	48.863		17.72		N
ATOM	3332	CB	SER			34.080 33.796	9.531 9.946	49.726 51.149		18.63		C
ATOM	3335	OG	SER			34.982	9.889			18.84 20.35		C
ATOM	3337	C	SER			34.113	8.013	51.872 49.691		19.34	•	0
ATOM	3338	ŏ	SER			35.207	7.421	49.779		20.24		C
ATOM	3339	N	SER			32.933		49.648		19.33		N
MOTA	3341	CA	SER			32.830	5.935	49.475		19.25		C
ATOM	3343	CB	SER	A	433	31.380	5.457	49.606		19.52		č
MOTA	3346	OG	SER	Α	433	30.864	5.761	50.876		23.43		ŏ
MOTA	3348	С	SER	Α	433	33.315	5.497	48.112		18.21		č
MOTA	3349	0	SER	Α	433	33.955	4.449	47.984		18.98		0
MOTA	3350	N	VAL			32.938	6.245	47.088		17.26		N
ATOM	3352	CA	VAL			33.393	5.976	45.732	1.00	17.49	•	С
ATOM	3354	CB	VAL			32.777	6.997	44.757		17.59		С
ATOM	3356		VAL			33.461	6.954	43.419		17.34		С
ATOM	3360		VAL			31.222	6.725	44.582		17.82		С
MOTA	3364	С	VAL			34.947	5.981	45.668		17.71		С
MOTA	3365	0	VAL			35.566	5.123	45.023		17.05		0
ATOM ATOM	3366 3368	N	HIS			35.548	6.927	46.376		17.43		N
ATOM	3370	CA CB	HIS HIS			36.977 37.352	7.015	46.504		18.66		C
MOTA	3373	CG	HIS			37.352	8.325 8.406	47.193		18.49		C
111 011						30.763	0.400	47.609	1.00	18.52		С

MOTA	3374		HIS				39.163	8.437	48.933	1.00 16.02		N
MOTA	3376		HIS				40.478	8.526	49.004	1.00 17.34		C
ATOM	3378		HIS				40.968	8.542	47.775	1.00 16.72		N
ATOM	3380		HIS				39.930	8.488	46.882	1.00 17.51		C
ATOM	3382	С	HIS		100	•	37.608	5.813	47.245	1.00 19.59		С
MOTA	3383	0	HIS				38.643	5.325	46.816	1.00 19.38		0
MOTA	3384	N	SER				37.001	5.349	48.339	1.00 20.61		N
MOTA	3386	CA	SER				37.480	4.150	49.021	1.00 21.50		С
MOTA	3388	CB	SER				36.635	3.807	50.249	1.00 21.87		С
MOTA	3391	OG	SER				36.836	4.754	51.285	1.00 24.47		0
MOTA	3393	C .	SER				37.444	2.984	48.060	1.00 21.81		C
ATOM	3394	0	SER				38.369			1.00 22.13		0
ATOM	3395	N	GLU				36.402	2.909	47.225	1.00 21.73		N
ATOM	3397	CA	GLU				36.338	1.831		1.00 22.18		С
ATOM	3399	CB	GLU				34.969	1.748	45.500	1.00 22.15		С
MOTA	3402	CG	GLU				33.758	1.448	46.410	1.00 24.83		С
ATOM	3405	CD	GLU				32.416	2.022	45.883	1.00 27.98		С
MOTA	3406		GLU				31.628	2.616	46.692	1.00 29.68		0
MOTA	3407		GLU				32.143		44.661	1.00 27.41		0
MOTA	3408	С	GLU				37.484	1.970	45.215	1.00 21.66		.C
MOTA .	3409	0	GLU				38.007	0.954	44.753	1.00 21.07		0
MOTA	3410	N	GLN				37.872	3.205	44.870	1.00 21.22		N
ATOM	3412	CA	GLN				38.960	3.418	43.898	1.00 21.53		С
MOTA	3414	СВ	GLN				38.925	4.838	43.308	1.00 21.92		С
ATOM	3417	CG	GLN				40.182	5.303	42.532	1.00 22.14		С
ATOM	3420	CD	GLN				40.414	4.542	41.242	1.00 22.72		C
ATOM	3421	OEI	GLN	A	438		39.994	4.978	40.162	1.00 22.48		0
MOTA	3422		GLN				41.103	3.411	41.344	1.00 21.67		N
ATOM	3425	C .			438		40.309	3.088	44.552	1.00 21.78		C
ATOM	3426	0			438		41.221	2.624	43.892	1.00 21.15		0
ATOM	3427	N			439		40.406	3.287	45.863	1.00 22.24		N
ATOM	3429	CA			439		41.626	2.983	46.581	1.00 22.93		C
MOTA	3431	CB			439		41.617	3.590	47.995	1.00 22.83		C
MOTA	3433		VAL				42.726	2.982	48.850	1.00 22.44		C
ATOM	3437		VAL				41.782	5.070	47.915	1.00 23.07		C
ATOM	3441	C			439		41.797 42.904	1.472	46.662	1.00 23.19		C
ATOM ATOM	3442 3443	0			439 440			0.957	46.531	1.00 23.61		0
ATOM	3445	N CA			440		40.686 40.632	0.782 -0.679	46.887 46.948	1.00 23.59 1.00 23.72		N
ATOM	3447	CB			440		39.216	-1.108	47.359			C
ATOM	3450	CG			440	•	39.072	-2.575	47.643	1.00 23.83 1.00 26.10		Č
ATOM	3451		PHE			•	39.203	-3.059	48.944	1.00 20.10		2
ATOM	3453		PHE				39.080	-4.425	49.208	1.00 27.31		CCC
ATOM	3455	CZ			440		38.812	-5.337	48.155	1.00 28.49		c
ATOM	3457		PHE				38.676	-4.863	46.855	1.00 27.80		Č
ATOM	3459		PHE				38.798	-3.482	46.603	1.00 27.54		Č
ATOM	3461	C			440		41.031	-1.261	45.592	1.00 23.41	•	č
ATOM	3462	ŏ			440		41.835	-2.175	45.534	1.00 23.32		ŏ
MOTA	3463	N			441		40.503	-0.700	44.507	1.00 23.68		N
ATOM	3465	CA			441		40.850	-1.132	43.144	1.00 24.12		Ĉ
ATOM	3467	СВ			441	•	39.945	-0.475	42.110	1.00 23.79		č
MOTA	3471	С			441		42.320	-0.901	42.762	1.00 24.90		Č
MOTA	3472	ŏ			441		42.830	-1.583	41.875	1.00 24.76		ŏ
ATOM	3473	N			442		42.985	0.062	43.408	1.00 25.88		N
ATOM	3475	CA			442		44.424	0.258	43.232	1.00 26.68		C
ATOM	3477	CB			442		44.873	1.619	43.763	1.00 26.33		Č
ATOM	3480	CG			442		44.327	2.844	43.037	1.00 26.21		C
ATOM	3482		LEU				44.704	4.101	43.802	1.00 25.44		Č
ATOM	3486	CD2			442		44.812	2.906	41.604	1.00 25.65		Č
MOTA	3490	С			442		45.206	-0.852	43.922	1.00 27.53		С
ATOM	3491	0	LEU	A	442		46.138	-1.376	43.354	1.00 27.92		0

ATOM	3492	N	ARG	Α	443	44.801	-1.200	45.139	1.00 29.13		NT
MOTA	3494	CA	ARG	A	443	45.410	-2.278	45.937	1.00 30.54		N
ATOM	3496	CB	ARG	Α	443	44.631	-2.482	47.251	1.00 30.34		C
ATOM	3499	CG			443	45.319	-1.941	48.495	1.00 31.28		C
ATOM	3502	CD			443	46.103	-3.002	49.305			C
ATOM	3505	NE			443	45.886	-2.830	50.750	1.00 37.28		С
ATOM	3507	CZ			443	45.823			1.00 39.82		N
ATOM	3508		ARG				-3.816	51.652	1.00 41.09		С
ATOM	3511		ARG			45.961	-5.094	51.303	1.00 40.52		N
ATOM	3514	C				45.610	-3.505	52.932	1.00 42.23		N
					443	45.489	-3.617	45.211	1.00 30.54		С
ATOM	3515	0			443	46.546	-4.267	45.211	1.00 30.72		0
ATOM	3516	N			444	44.389	-4.038	44.596	1.00 30.38		N
MOTA	3518	CA	LEU			44.412	-5.305	43.840	1.00 30.47		C
MOTA	3520	CB	LEU			43.007	-5.927	43.708	1.00 30.45		C
ATOM	3523	CG	LEU			41.844	-5.080	43.182	1.00 30.54		Č
MOTA	3525	CD1	LEU	Α	444	41.765	-5.168	41.674	1.00 30.70		č
MOTA	3529	CD2	LEU	Α	444	40.541	-5.535	43.811	1.00 31.11		Č
MOTA	3533	C	LEU	A	444	45.100	-5.161	42.472	1.00 30.14	•	C
MOTA	3534	0	LEU	A	444	45.595	-6.144	41.931	1.00 30.25		
ATOM	3535	N			445	45.160	-3.937	41.941	1.00 30.23		0
ATOM	3537	CA			445	45.814	-3.652	40.651	1.00 29.84		N
MOTA	3539	CB			445	45.078	-2.484	39.986			C
ATOM	3542	CG			445	45.441	-2.111		1.00 30.05		C
ATOM	3545	CD	GLN			44.927		38.547	1.00 30.96		C
ATOM	3546		GLN				-0.707	38.194	1.00 33.36		С
ATOM	3547		GLN			45.652	0.115	37.613	1.00 35.36		0
	3550					43.686	-0.426	38.575	1.00 33.42		N
ATOM		С	GLN			47.331	-3.356	40.801	1.00 29.48		С
ATOM	3551	0	GLN			47.991	-2.911	39.847	1.00 29.37		0
ATOM	3552	N	ASP			47.883	-3.632	41.988	1.00 28.99		N
ATOM	3554	CA	ASP			49.315	-3.451	42.273	1.00 28.52		C
MOTA	3556	CB			446	50.162	-4.386	41.389	1.00 28.74		C
ATOM	3559	CG			446	50.582	-5.653	42.115	1.00 30.00		Č
ATOM	3560		ASP			51.055	-5.551	43.270	1.00 31.05		ō
ATOM	3561	OD2	ASP			50.473	-6.794	41.603	1.00 31.36		ŏ
MOTA	3562	С	ASP	Α	446	49.802	-1.995	42.130	1.00 27.48		č
ATOM	3563	0	ASP	Α	446	50.983	-1.755	41.850	1.00 27.27		ŏ
ATOM	3564	N	LYS	A	447	48.896	-1.035	42.317	1.00 25.97		N
ATOM	3566	CA	LYS			49.236	0.379	42.194	1.00 25.34		C
ATOM	3568	CB	LYS			48.236	1.112	41.308	1.00 25.54		
ATOM	3571	CG	LYS			48.791	1.476	39.941	1.00 27.42		C
ATOM	3574	CD	LYS			47.937	2.541	39.234			C
ATOM	3577	CE	LYS			48.324	2.703		1.00 29.14		C
ATOM	3580	NZ	LYS			49.794		37.756	1.00 29.77		С
ATOM	3584	C	LYS				2.489	37.525	1.00 29.95		N
ATOM	3585	õ	LYS			49.281	1.012	43.574	1.00 24.20		С
ATOM	3586	N	LYS			48.264	1.073	44.273	1.00 24.40		0
ATOM						50.465	1.479	43.961	1.00 22.65		N
	3588	CA	LYS			50.708	1.963	45.322	1.00 21.68		С
MOTA	3590	CB	LYS			52.132	1.609	45.769	1.00 22.05		С
MOTA	3593	CG	LYS			52.363	0.108	45.985	1.00 23.85		C
ATOM	3596	CD	LYS			51.620	-0.402	47.242	1.00 25.90		C
ATOM	3599	CE	LYS			51.029	-1.793	47.032	1.00 27.29		č
ATOM	3602	NZ	LYS			52.111	-2.843	46.988	1.00 27.04		N
ATOM	3606	С	LYS			50.500	3.469	45.466	1.00 19.63		C
MOTA	3607	0	LYS			50.992	4.256	44.662	1.00 19.17		ŏ
MOTA	3608	N	LEU			49:763	3.857	46.499	1.00 17.42		N
MOTA	3610	CA	LEU			49.747	5.246	46.931	1.00 16.08		
ATOM	3612	СВ	LEU	Α	449	48.709	5.470	48.016	1.00 15.80		C
ATOM	3615	CG	LEU			47.276	5.187	47.620			C
ATOM	3617	CD1	LEII	Α	449	46.393	5.462		1.00 15.59		C
ATOM	3621	CD2	LEU	Δ	449	46.889		48.794	1.00 15.93		C
ATOM	3625	C	LEU			51.119	6.042	46.441	1.00 16.59		C
			UII (	-73		71.113	5.609	47.497	1.00 14.86		С
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3626 3627 3628 3630 3633 3639 3640 3644 3653 3655 3655 3655 3655 3655 3655	O N CA CB CC C O N CA CB CC C C C C C C C C C C C C C C C	PRO	AAAAAAAAAAAAAAA	450 450 450 450 450 450 451 451 451 451 451 452 452 452		53.554 55.004 55.826 55.096 52.663 51.988 52.639 51.818 52.222	9.075 7.849 7.451 7.579 7.370 7.354 7.498 6.908 7.221 8.432 8.113 9.662 10.694 12.127	46.715 46.361 49.305 49.705 50.114 51.579 52.056 50.950 49.693 52.220 53.182 51.726 52.366 51.935	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	13.64 12.45 12.02 12.24 13.38 11.44 10.71 11.97 11.99 11.22 13.16 14.07 13.81 14.82 14.59		ONCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
3664	CD1	LEU	Α	452	•	54.136	13.827	51.798	1.00	12.67		C
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3674	N											И
3676	CA					48.589	9.584	50.700	1.00	16.83		С
												С
												C
3687	CD2	LEU	A	453								C C
3691,	C	LEU	A	453		48.255	8.252	51.383				C
3692	0					47.164	8.076	51.892	1.00	15.52	•	Õ
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	N							54.252				N
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						51.687	10.571	56.909	1.00	25.06		Ō
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3737	Ö											C 0
3738	N	TRP	Α	457		44.715	7.054	53.460				N
3740	CA	TRP	A	457		43.686	6.274	52.788				С
								51.352				C
												C
	NE1	TRP	A	457								C N
3750	CE2	TRP	Ā	457		42.909	10.339	50.607				· C
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GLU 3716 OE2 GLU 3717 C GLU 3718 O GLU 3718 O GLU 3718 O GLU 3711 C G GLU 3711 C G GLU 3714 CD GLU 3715 OE1 GLU 3716 OE2 GLU 3717 C GLU 3718 O GLU	3627 N PRO A 3628 CA PRO A 3630 CB PRO A 3633 CG PRO A 3636 CD PRO A 3639 C PRO A 3640 O PRO A 3641 N PRO A 3642 CA PRO A 3644 CB PRO A 3650 CD PRO A 3653 C PRO A 3653 C PRO A 3655 N LEU A 3655 N LEU A 3657 CA LEU A 3662 CG LEU A 3668 CD2 LEU A 3668 CD2 LEU A 3672 C LEU A 3673 O LEU A 3674 N LEU A 3676 CA LEU A 3676 CA LEU A 3677 CB LEU A 3678 CB LEU A 3677 CD LEU A 3678 CB LEU A 3678 CB LEU A 3677 CB SER A 3691 C LEU A 3692 O LEU A 3693 N SER A 3695 CA SER A 3697 CB SER A 3700 OG SER A 3700 CB SER A 3700 CB LEU A 3710 CLEU A 3711 CG GLU A 3712 CB LLEU A 3714 CD GLU A 3715 OE1 GLU A 3715 OE1 GLU A 3716 OE2 GLU A 3717 C GLU A 3718 O GLU A 3719 N ILE A 3710 CB LLE A 3710 CB LLE A 3710 CB LLE A 3711 CG GLU A 3711 CG GLU A 3712 CB LLE A 3714 CD GLU A 3715 OE1 GLU A 3716 OE2 GLU A 3717 C GLU A 3718 O GLU A 3719 N ILE A 3710 CB LLE A 3710 CB LLE A 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3737 O ILE A 456 3738 N TRP A 457 3740 CA TRP A 457 3745 CG TRP A 457 3745 CG TRP A 457 3746 CD1 TRP A 457 3748 NE1 TRP A 457	3627 N PRO A 450 51.602 3628 CA PRO A 450 52.857 3630 CB PRO A 450 51.794 3636 CD PRO A 450 50.968 3639 C PRO A 450 52.651 3640 O PRO A 450 52.651 3641 N PRO A 451 53.691 3642 CA PRO A 451 53.594 3644 CB PRO A 451 55.004 3647 CG PRO A 451 55.004 3653 C PRO A 451 55.004 3653 C PRO A 451 55.096 3653 C PRO A 451 55.096 3653 C PRO A 451 55.096 3655 N LEU A 452 52.639 3655 N LEU A 452 52.639 3657 CA LEU A 452 52.222 3662 CG LEU A 452 53.581 3668 CD2 LEU A 452 53.460 3672 C LEU A 452 53.460 3673 O LEU A 452 53.460 3676 CA LEU A 453 48.589 3678 CB LEU A 453 48.396 3678 CB LEU A 453 48.396 3678 CB LEU A 453 48.396 3687 CD2 LEU A 453 48.316 3687 CD2 LEU A 453 48.396 3691 C LEU A 453 48.980 3697 CB SER A 454 49.218 3695 CA SER A 454 49.218 3697 CB SER A 454 49.980 3697 CB SER A 454 49.218 3700 OG SER A 454 50.234 3700 C SER A 454 50.234 3701 O G SER A 454 50.234 3701 O G 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53.366 12.812 54.022 36672 C LEU A 452 53.366 10.735 52.981 3673 C LEU A 452 49.526 10.735 52.981 3667 CA LEU A 453 48.599 9.584 50.700 3678 CB LEU A 453 48.492 10.799 48.488 3687 CD2 LEU A 453 48.492 10.799 48.488 3687 CD2 LEU A 453 48.492 10.799 48.488 3687 CD2 LEU A 453 48.599 9.584 50.700 3700 CG SER A 454 48.986 6.054 52.085 3710 CG LEU A 455 47.164 8.076 51.892 3700 CG SER A 454 48.986 6.054 52.085 3711 C GLU A 455 47.164 8.976 51.892 3700 CG SER A 454 48.998 6.054 52.085 3711 C GLU A 455 47.455 7.813 55.869 3711 C GLU A 455 47.456 47.457 7.588 55.255 37.768 3714 C GLU A 455 47.456 47.477 5.866 56.942 3721 C GLU A	3627 N PRO A 450 51.602 6.815 47.207 1.00 3628 CA PRO A 450 52.857 7.287 47.801 1.00 3633 CB PRO A 450 53.097 8.619 47.106 1.00 3633 CG PRO A 450 50.968 7.849 46.361 1.00 3639 C PRO A 450 50.968 7.849 46.361 1.00 3639 C PRO A 450 52.651 7.451 49.305 1.00 3641 N PRO A 451 53.691 7.370 50.114 1.00 3641 N PRO A 451 53.691 7.370 50.114 1.00 3642 CA PRO A 451 53.691 7.370 50.114 1.00 3644 CB PRO A 451 55.826 6.908 50.950 1.00 3647 CG PRO A 451 55.826 6.908 50.950 1.00 3650 CD PRO A 451 55.826 6.908 50.950 1.00 3653 C PRO A 451 55.826 6.908 50.950 1.00 3653 C PRO A 451 55.826 6.908 50.950 1.00 3653 C PRO A 451 55.826 6.908 50.955 1.00 3655 N LEU A 452 52.663 8.432 52.220 1.00 3655 N LEU A 452 51.818 10.694 52.366 1.00 3655 CB LEU A 452 51.818 10.694 52.366 1.00 3666 CD LEU A 452 53.581 12.577 52.524 1.00 3668 CD1 LEU A 452 53.581 12.577 52.524 1.00 3668 CD1 LEU A 452 53.460 12.812 54.022 1.00 3669 CD1 LEU A 452 53.460 12.812 54.022 1.00 3673 O LEU A 452 50.339 10.461 52.119 1.00 3673 C LEU A 452 53.460 12.812 54.022 1.00 3676 CA LEU A 453 49.980 9.984 50.940 1.00 3677 CA LEU A 453 49.980 9.984 50.940 1.00 3687 CD LEU A 453 48.316 9.574 49.491 1.00 3688 CD LEU A 453 48.316 9.574 49.491 1.00 3689 CD LEU A 453 48.316 9.574 49.491 1.00 3689 CD LEU A 453 48.316 9.574 49.491 1.00 3689 CD LEU A 453 48.316 9.574 49.491 1.00 3693 N SER A 454 48.998 9.584 50.700 1.00 3693 N SER A 454 48.998 6.054 52.085 1.00 3700 CG SER A 454 48.998 6.054 52.085 1.00 3701 C SER A 454 48.593 6.054 52.757 52.961 1.00 3702 C SER A 454 48.593 6.054 52.757 52.002 1.00 3703 O SER A 454 48.599 7.92 8.600 56.256 1.00 3701 C GLU A 455 53.185 9.162 57.768 1.00 3702 C SER A 454 48.599 7.92 8.600 56.256 1.00 3703 C SER A 454 48.599 7.92 8.600 56.256 1.00 3701 C GLU A 455 53.185 9.162 57.768 1.00 3702 C SER A 454 48.599 7.92 8.600 56.256 1.00 3703 C SER A 454 48.599 7.92 8.600 56.256 1.00 3703 C SER A 454 48.599 7.92 8.600 56.256 1.00 3703 C SER A 454 48.599 7.92 8.600 56.256 1.00 3711 C GLU A 455 53.185 9.162 57.768 1.00 3712 CG LLU A 455 53.186 6.274 52.	3627 N PRO A 450 51.602 6.815 47.207 1.00 13.64 3636 CA PRO A 450 52.857 7.287 47.801 1.00 12.45 3630 CB PRO A 450 53.097 8.619 47.106 1.00 12.02 3633 CG PRO A 450 55.096 7.849 46.361 1.00 12.24 3636 CP PRO A 450 55.096 7.849 46.361 1.00 13.38 3639 C PRO A 450 55.651 7.451 49.305 1.00 11.44 3640 O PRO A 450 55.651 7.451 49.305 1.00 11.44 3640 O PRO A 451 53.691 7.370 50.114 1.00 11.43 3642 CB PRO A 451 53.691 7.370 50.114 1.00 11.43 3642 CB PRO A 451 55.004 7.498 52.056 1.00 11.79 3644 CB PRO A 451 55.004 7.498 52.056 1.00 11.99 3647 CG PRO A 451 55.096 7.221 49.693 1.00 11.23 3653 C PRO A 451 55.096 7.221 49.693 1.00 11.32 3653 C PRO A 451 55.096 7.221 49.693 1.00 11.32 3653 C PRO A 451 55.096 8.432 52.220 1.00 13.16 3654 O PRO A 451 55.988 8.113 53.182 1.00 14.59 3655 N LEU A 452 52.639 9.662 51.726 1.00 13.81 3656 CD PRO A 451 55.988 8.133 53.182 1.00 14.59 3662 CG LEU A 452 52.639 9.662 51.726 1.00 13.81 3665 CD RO A 452 51.818 10.694 52.366 1.00 14.59 3662 CG LEU A 452 53.460 12.812 54.022 1.00 12.97 3664 CD1 LEU A 452 53.581 12.577 52.524 1.00 12.97 3673 O LEU A 452 53.460 12.812 54.022 1.00 12.97 3676 CA LEU A 452 53.460 12.812 54.022 1.00 12.97 3677 N LEU A 452 53.460 10.735 52.981 1.00 16.63 3678 CB LEU A 452 50.339 10.461 52.119 1.00 16.63 3678 CB LEU A 453 48.599 9.844 50.700 1.00 16.53 3679 CB LEU A 453 48.599 9.844 50.700 1.00 16.63 3683 CD1 LEU A 453 48.980 9.984 50.700 1.00 16.63 3681 CG LEU A 453 48.980 9.984 50.700 1.00 16.83 3679 CB LEU A 453 48.980 9.584 50.700 1.00 16.83 3691 C LEU A 453 48.980 9.584 50.700 1.00 16.83 3692 C BER A 454 49.980 9.894 50.700 1.00 16.83 3693 C BER A 454 49.980 9.894 50.700 1.00 16.83 3691 C LEU A 453 48.998 9.594 50.700 1.00 16.83 3693 C C SER A 454 49.918 7.165 54.252 1.00 19.47 3700 C G SER A 454 49.918 7.165 54.252 1.00 19.47 3710 C GLU A 455 49.918 7.165 54.252 1.00 19.47 3710 C GLU A 455 51.133 8.200 56.856 1.00 22.89 3711 C G GLU A 455 49.918 7.165 54.252 1.00 2.00 18.79 3712 C GLU A 455 40.457 40.988 54.457 1.00 23.36 3713 C LLE A 456 46.474 77.77 5.88 55.	3628 CA PRO A 450  3628 CA PRO A 450  3630 CB PRO A 450  51.602  52.857 7.287 47.801  1.00 12.65  3630 CB PRO A 450  51.794  9.075 46.715  1.00 12.02  3636 CD PRO A 450  52.651 7.451  49.305 1.00 11.33  3639 C PRO A 450  52.651 7.451  49.305 1.00 11.44  3640 O PRO A 450  52.651 7.451  49.305 1.00 11.44  3640 O PRO A 450  52.651 7.451  49.305 1.00 11.43  3641 N PRO A 451  53.691 7.370  50.114 1.00 11.43  3642 CA PRO A 451  53.691 7.370  50.114 1.00 11.43  3644 CB PRO A 451  53.691 7.370  50.114 1.00 11.99  3644 CB PRO A 451  55.096 7.221  49.693 1.00 11.92  3653 C PRO A 451  55.096 7.221  49.693 1.00 11.22  3650 CD PRO A 451  55.096 7.221  49.693 1.00 11.32  3653 C PRO A 451  55.096 7.221  49.693 1.00 11.32  3655 C PRO A 451  55.096 7.221  49.693 1.00 11.32  3655 C PRO A 451  55.096 7.221  49.693 1.00 11.32  3655 C PRO A 451  51.988 8.113  53.182 1.00 14.07  3664 CD PRO A 452  51.818 10.694  52.366 1.00 14.82  3666 CD LEU A 452  53.581 12.577  52.524 1.00 13.86  3668 CD LEU A 452  53.460 12.812  54.136 13.827  51.798 1.00 12.67  3673 C LEU A 452  53.460 12.812  54.022 1.00 12.97  3676 CA LEU A 452  53.460 12.812  54.022 1.00 12.97  3677 C LEU A 452  53.460 12.812  54.022 1.00 12.97  3678 C LEU A 453  3683 C PRO A 451  3768 CB LEU A 453  48.396  9.594 50.900 1.00 16.83  3683 CD 1.00 14.89  3689 CD LEU A 453  48.499 9.00 9.84 50.90 1.00 16.83  3681 CD LEU A 453  48.492 10.799  48.488 1.00 16.52  47.008 1.00 16.83  3699 C RE RA 454  49.980 9.984 50.900 1.00 16.81  3700 O SER A 454  49.980 9.984 50.900 1.00 16.83  3691 C LEU A 453 48.899 9.594 50.700 1.00 16.83  3693 C LEU A 455 49.526 10.735  54.93 N SER A 454  49.980 9.984 50.900 1.00 16.81  3700 O SER A 454  49.980 9.984 50.900 1.00 16.83  3701 C LEU A 453 48.899 6.544  3702 C SER A 454  49.980 9.984 50.900 1.00 16.81  3708 CB LEU A 455 49.526 10.735  54.69  10.00 16.83  3701 CB LEU A 453 48.899 6.544  3702 C SER A 454  49.980 9.984 50.900 1.00 16.89  3716 OED LEU A 455 49.980  3716 OED A 455 49.980  3717 C GLU A 455 49.888  3718 OED A 455 49.980  3718 OED A 455

ATOM	3751	CD2	TRP	Δ.	457	43.513	9.113	E0 060	1 00 04 50	_
ATOM	3752	CE3	TRP			44.274		50.268	1.00 24.59	C
ATOM	3754	CZ3					9.046	49.096	1.00 25.78	С
ATOM	3756		TRP			44.408 43.796	10.189	48.323	1.00 26.73	C
ATOM	3758		TRP				11.396	48.698	1.00 24.85	С
ATOM	3760	C	TRP			43.053 43.811	11.489	49.833	1.00 24.21	C
ATOM	3761	Ö	TRP			42.804	4.752	52.805	1.00 26.89	C
ATOM	3762	N	ASP				4.056	52.578	1.00 26.84	0
ATOM	3764	CA	ASP			45.011	4.216	53.039	1.00 28.36	N
ATOM	3766	CB				45.153	2.759	53.106	1.00 29.97	C
ATOM	3769	CG	ASP ASP			46.605	2.290	52.851	1.00 29.50	С
ATOM	3770		ASP			47.037	2.432	51.388	1.00 28.75	Ç
ATOM	3771		ASP			46.194	2.287	50.471	1.00 25.80	0
ATOM	3772	C	ASP			48.218	2.709.	51.066	1.00 28.62	0
ATOM	3773	Ö	ASP			44.668	2.262	54.471	1.00 31.78	Ċ
ATOM	3774	И	VAL			44.698 44.229	3.026	55.444	1.00 31.76	0
ATOM	3776	CA	VAL				0.994	54.538	1.00 33.72	N
ATOM	3778	CB	VAL			43.925	0.350	55.829	1.00 35.18	C
ATOM	3780		VAL			42.776	-0.738	55.764	1.00 35.47	C
ATOM	3784		VAL			41.402	-0.065	55.696	1.00 36.37	С
ATOM	3788	C				42.954	-1.714·		1.00 35.60	С
ATOM	3789	Ö	VAL		459	45.207	-0.240	56.430	1.00 36.19	С
ATOM	3790	N	ALA			46.053	-0.769	55.701	1.00 36.50	0
ATOM	3792	CA	ALA			45.338	-0.119	57.759	1.00 37.07	N
ATOM	3794	CB			460	46.520	-0.567	58.513	1.00 37.34	C
ATOM	3798	СВ			460	46.663	-2.107	58.448	1.00 37.39	Ċ
ATOM	3799	Ö			460	47.805	0.130	58.048	1.00 37.43	C
ATOM	3800		GW3			47.797	1.331	57.735	1.00 38.01	0
ATOM	3801		GW3			45.928 46.006	22.483	41.966	1.00 29.37	0
ATOM	3802		GW3				22.922	43.117	1.00 27.82	Ç
ATOM	3803		GW3			46.154	24.137	43.352	1.00 30.11	0
ATOM	3806	C33	GW3	7	500	45.991	22.048	44.336	1.00 25.98	C
ATOM	3807		GW3			45.090 45.577	20.843	44.120	1.00 24.26	C
ATOM	3809		GW3			43.729	19.636	43.605	1.00 22.94	C
ATOM	3811		GW3			42.848	20.985	44.385	1.00 22.24	C
ATOM	3813		GW3			43.333	19.935	44.145	1.00 23.11	C
ATOM	3815		GW3			44.691	18.734	43.634	1.00 22.63	C
ATOM	3816		GW3			45.145	18.592	43.361	1.00 23.34	C
ATOM	3817		GW3			44.617	17.397 16.843	42.893 41.708	1.00 23.88	0
ATOM	3820		GW3			44.920	15.377	41.703	1.00 24.90 1.00 24.64	C
ATOM	3823					44.100	14.679	40.630	1.00 24.64	C
ATOM	3826	NO9				43.591	13.396	41.119	1.00 24.72	C
ATOM	3827		GW3			44.504	12.521	41.826	1.00 23.09	N
ATOM	3830		GW3			43.883	11.827	42.999	1.00 27.47	C
ATOM	3831		GW3			44.086		43.132	1.00 32.67	
ATOM	3832	CL4			500	45.046	9.500	41.913	1.00 37.17	C
ATOM	3833		GW3			43.138	12.498	43.950	1.00 33.22	CL
ATOM	3835	C22	GW3	Α	500	42.580	11.795	45.015	1.00 33.22	C
ATOM	3837	C21	GW3	A	500	42.742	10.415	45.175	1.00 34.93	C
ATOM	3839		GW3			43.479	9.662	44.266	1.00 37.10	C
MOTA	3840	C39	GW3	A	500	43.672	8.164		1.00 39.44	C
MOTA	3841	F41	GW3	A	500	43.097	7.617	43.292	1.00 41.02	
ATOM	3842		GW3			43.146	7.681	45.481	1.00 40.05	F
ATOM	3843	F42	GW3	A	500	44.958	7.854	44.374	1.00 42.09	F F
ATOM	3844	C08	GW3	A	500	42.341	12.851	40.595	1.00 42.72	r ·
MOTA	3847		GW3			41.159	13.837	40.585	1.00 20.89	C
ATOM	3849		GW3			40.117	13.455	39.587	1.00 18.51	C
ATOM	3850		GW3			39.839	12.122	39.259	1.00 17.88	c
ATOM	3852	C03	GW3	A	500	38.864	11.795	38.318	1.00 17.60	C
ATOM	3854	C04	GW3	A	500	38.142	12.800	37.693	1.00 17.52	c
MOTA	3856	C05	GW3	A	500	38.428	14.125	37.997	1.00 10.04	C
		· · · · · · · · · · · · · · · · · · ·			· · · ·				2.00 27.03	

MOTA	3858	C06	GW3	A 500		39.393	14,461	38.949	1 00 10 00
ATOM	3860	C10		A 500		40.562	13.938	41.935	1.00 16.25
ATOM	3861			A 500		40.530			1.00 18.44
ATOM	3863	C12	GW3	A 500		39.978	15.163	42.570 43.843	1.00 17.75
ATOM	3865	C13	GW3	A 500		39.457	15.260 14.147	44.489	1.00 19.18
ATOM	3867	C14	GW3	A 500		39.502	12.905		1.00 18.83
ATOM	3869	C15	GW3	A 500		40.038	12.811	43.858	1.00 19.46
MOTA	3871	04		A 501		41.801	25.834	42.572	1.00 19.27
ATOM	3873	C2		A 501		42.137	25.218	49.973 51.196	1.00 47.81
ATOM	3875	СЗ		A 501		40.900	24.618	51.196	1.00 45.49
ATOM	3879			A 501		43.140	24.140	50.870	1.00 46.17
MOTA	3883	N	LEU			1.952	28.417	56.409	1.00 45.25
MOTA	3885	CA		B 220		2.004	27.365	55.326	1.00 20.12 1.00 20.40
ATOM	3887	CB	LEU			1.870	25.949	55.891	1.00 20.40
MOTA	3890	CG	LEU			2.969	25.326	56.771	1.00 22.03
MOTA	3892	CD1	LEU	B 220		2.525	23.974	57.322	1.00 22.03
ATOM	3896	CD2				4.275	25.170	56.045	1.00 22.13
MOTA	3900	С	LEU	B 220		0.888	27.586	54.308	1.00 19.67
ATOM	3901	0	LEU			-0.198		54.679	1.00 19.18
ATOM	3904	N	THR			1.161	27.322	53.035	1.00 19.13
ATOM .	3906	CA	THR			0.118	27.358	52.008	1.00 18.93
ATOM	3908	СВ	THR			0.721	27.418	50.597	1.00 19.02
ATOM	3910	OG1				1.595	26.293	50.362	1.00 15.73
ATOM	3912	CG2				1.623	28.643	50.447	1.00 19.21
ATOM	3916	C		B 221		-0.784	26.126	52.103	1.00 19.37
ATOM ATOM	3917	0		B 221		-0.438	25.144	52.736	1.00 19.29 ·
ATOM	3918	N		B 222		-1.940	26.185	51.461	1.00 19.97
ATOM	3920 3922	CA		B 222		-2.853	25.055	51.450	1.00 20.36
ATOM	3926	CB C	ALA	B 222 B 222	•	-4.114	25.374	50.664	1.00 20.25
ATOM	3927	0	ALA			-2.142	23.870	50.844	1.00 20.59
ATOM	3928	N		B 222 B 223		-2.277	22.766	51.330	1.00 20.50
ATOM	3930	CA		B 223		-1.358	24.128	49.803	1.00 20.84
ATOM	3932	CB		B 223		-0.660 -0.020	23.080	49.060	1.00 21.31
ATOM	3936	C		B 223		0.407	23.660 22.397	47.810	1.00 21.51
ATOM	3937	ŏ		B 223		0.601	21.211	49.885 49.747	1.00 21.16
ATOM	3938	N		B 224		1.112	23.153	50.717	1.00 21.87
ATOM	3940	CA		B 224		2.102	22.585	51.614	1.00 20.73 1.00 20.66
MOTA	3942	CB	GLN	B 224		2.996	23.683	52.217	1.00 20.60
ATOM	3945	CG		B 224		3.888	24.368	51.165	1.00 20.60
ATOM	3948	CD	GLN		•	4.685	25.571	51.698	1.00 20.35
ATOM	3949	OE1		B 224		4.233	26.288	52.592	1.00 20.73
ATOM ·	3950	NE2		B 224		5.874	25.774	51.147	1.00 18.48
ATOM	3953	C ·		B 224		1.424	21.766	52.709	1.00 20.54
ATOM	3954	0		B 224		1.925	20.722	53.076	1.00 20.39
MOTA	3955	N		B 225		0.319	22.261	53.253	1.00 20.45
ATOM ATOM	3957	CA		B 225		-0.474	21.489	54.209	1.00 21.68
MOTA	3959 3962	CB		B 225		-1.603	22.355	54.810	1.00 22.26
ATOM	3965	CG CD		B 225		-1.091	23.506	55.700	1.00 24.57
ATOM	3966	OE1		B 225 B 225		-2.190	24.430	56.226	1.00 28.84
ATOM	3967			B 225		-3.390	24.145		1.00 30.04
ATOM	3968	C		B 225		-1.856 -1.021	25.452	56.894	1.00 32.32
ATOM	3969	Ö		B 225		-1.021 -0.821	20.178	53.568	1.00 21.44
ATOM	3970	N	LEU	B 226		-0.821 -1.645	19.102	54.102	1.00 21.30
ATOM	3972	CA	LEU	B 226		-2.087	20.268 19.082	52.398	1.00 21.09
ATOM	3974	СВ		B 226		-2.688	19.002	51.680	1.00 21.40
ATOM	3977	CG		B 226		-3.452	18.233	50.307 49.725	1.00 20.97 1.00 21.69
MOTA	3979	CD1		B 226		-4.473	17.665	50.726	1.00 21.69
ATOM	3983	CD2	LEU	B 226		-4.165	18.624	48.450	1.00 20.99
ATOM	3987	С		B 226		-0.966	18.076	51.485	1.00 21.71

ATOM	3988		LEU :			-1.132	16.897	51.756	1.00 22.24		0
MOTA	3989		MET :			0.177	18.564	51.031	1.00 21.92		N
ATOM	3991		MET			1.344	17.740	50.806	1.00 22.54		С
ATOM	3993		MET :			2.477	18.599	50.227	1.00 23.18	•	C
MOTA MOTA	3996 3999		MET MET		227	3.889 5.252	18.099 19.110	50.497 49.731	1.00 27.64		C
ATOM	4000	CE	MET			4.355	20.407	48.801	1.00 35.04 1.00 35.00	•	S C
ATOM	4004	C	MET			1.775	16.978	52.062	1.00 33.00		C
ATOM	4005	ō	MET			2.044	15.787	52.001	1.00 20.48	•	ŏ
MOTA	4006	N	ILE			1.837	17.667	53.197	1.00 21.11		N
MOTA	4008	CA	ILE			2.226	17.033	54.454	1.00 20.70		С
MOTA	4010	CB	ILE			2.454	18.094	55.552	1.00 20.51		С
MOTA	4012		ILE			3.753	18.863	55.279	1.00 21.99		С
ATOM	4015		ILE			3.752	20.289	55.826	1.00 21.87		C
ATOM ATOM	4019 4023	CG2	ILE			2.541 1.155	17.450 16.000	56.925 54.882	1.00 19.69		C
ATOM	4023	0	ILE			1.489	14.904	55.320	1.00 20.68 1.00 20.06		C O
ATOM	4025	N	GLN			-0.120	16.359	54.753	1.00 20.09		И.
ATOM	4027	CA	GLN			-1.194	15.446	55.120	1.00 20.97		C
ATOM	4029	CB	GLN			-2.574	16.126	54.993	1.00 20.90		C
ATOM	4032	CG	GLN			-2.829	17.199	56.034	1.00 22.03		C
ATOM	4035	CD	GLN			-3.907	18.235	55.593	1.00 27.82		С
ATOM	4036		GLN			-4.472	18.124	54.487	1.00 32.18		0
ATOM	4037		GLN			-4.176	19.235	56.444	1.00 24.45		N
ATOM ATOM	4040 4041	C	GLN			-1.126	14.146	54.299	1.00 20.36	•	С
ATOM	4041	N O	GLN GLN			-1.277 -0.836	13.080 14.247	54.870 52.998	1.00 20.51 1.00 19.95		N O
ATOM	4044	CA	GLN			-0.678	13.092	52.094	1.00 19.76		C
ATOM	4046	CB	GLN			-0.423	13.577	50.638	1.00 19.71		c
MOTA	4049	CG	GLN			-1.657	14.211	49.988	1.00 20.96		č
ATOM	4052	CD	GLN			-1.489	14.710	48.537	1.00 24.54		C
MOTA	4053	OE1	GLN			-2.232	14.269	47.640	1.00 28.47		0
MOTA	4054	NE2				-0.596	15.686	48.323	1.00 23.65		N
ATOM	4057	C	GLN			0.439	12.125	52.530	1.00 19.30		С
ATOM ATOM	4058 4059	0	GLN			0.288	10.889	52.504	1.00 19.78		0
ATOM	4059	N CA	LEU LEU			1.562 2.728	12.691 11.909	52.926 53.291	1.00 18.21 1.00 17.41		N C
ATOM	4063	CB	LEU			3.978	12.788	53.441	1.00 17.41		C
ATOM	4066	CG	LEU			4.473	13.501	52.207	1.00 15.74		č
MOTA	4068		LEU			5.667	14.324	52.595	1.00 16.14		Č
MOTA	4072	CD2	LEU	В	231	4.849	12.533	51.189	1.00 17.07		С
ATOM	4076	С	LEU			2.491	11.257	54.610	1.00 17.15		C
ATOM	4077	0	LEU			2.894	10.119	54.802	1.00 16.91		0
ATOM	4078	N	VAL			1.890	12.003	55.531	1.00 16.61		N
ATOM ATOM	4080 4082	CA CB			232	1.615 1.132	11.498 12.631	56.860 57.800	1.00 16.91 1.00 16.52		C
ATOM	4084		VAL			0.611	12.073	59.141	1.00 15.82		c
ATOM	4088		VAL			2.270	13.587	58.082	1.00 17.23		c
MOTA	4092	C			232	0.579	10.348	56.799	1.00 17.56		č
MOTA	4093	0			232	0.771	9.307	57.429	1.00 17.67		0
ATOM	4094	N			233	-0.505	10.557	56.048	1.00 17.49		N
ATOM	4096	CA			233	-1.572	9.562	55.883	1.00 17.46		С
ATOM	4098	CB			233	-2.721	10.162	55.063	1.00 16.78		C
ATOM	4102	C			233	-1.045	8.277	55.203	1.00 18.02		C
ATOM ATOM	4103 4104	O N			233 234	-1.456 -0.128	7.197 8.412	55.546 54.251	1.00 18.54 1.00 18.75		0
ATOM	4104	CA			234	0.418	7.274	53.515	1.00 18.75		N C
ATOM	4108	CB			234	1.181	7.751	52.301	1.00 19.31		Č
ATOM	4112	C			234	1.348	6.486	54.439	1.00 20.55		č
MOTA	4113	0			234	1.357	5.267	54.472	1.00 22.00		Ö
ATOM	4114	N			235	2.096	7.204	55.225	1.00 21.28		N

ATOM	4116	CA	GLN	B 235		2.897	6,606	56.244	1 00 00	٠,
ATOM	4118			B 235		3.687	7.686	56.962	1.00 22.6	04
MOTA	4121	CG		B 235		4.873	7.175	57.721	1.00 23.1	.2
ATOM	4124	CD		B 235		6.154	7.982	57.483	1.00 26.1	
ATOM	4125			B 235		6.198	9.190	57.778	1.00 27.0	8
ATOM	4126	NE2		B 235		7.225	7.288	57.050	1.00 25.2	: /
ATOM	4129	С		B 235		2.029		57.030	1.00 25.1	
MOTA	4130	Ö		B 235		2.374	4.719			
ATOM	4131	N		B 236		0.886	6.400	57.590 57.590	1.00 23.9	
ATOM	4133	CA		B 236	•	0.026	5.735	57.590	1.00 22.8	
ATOM	4135			B 236		-1.076	6.680	58.538	1.00 23.2	
ATOM	4138	CG		B 236				59.060	1.00 23.4	.7
ATOM	4140	CD1		B 236		-0.990	0.102	60.325	1.00 24.4	6
ATOM	4144			B 236		-3.250	6.692 6.563	61.552	1.00 25.9	
ATOM	4148	C		B 236		-0.597	4.450	60.375	1.00 24.5	5
ATOM	4149	Ŏ.		B 236		-0.397		57.954	1.00 22.9	
ATOM	4150	N		B 237		-0.947	3.489	58.692	1.00 22.7	1
ATOM	4152	CA		B 237			4.434	56.666	1.00 22.7	5
ATOM	4154	CB		B 237		-1.416 -1.772	3.199	56.016	1.00 23.3	
ATOM	4157	CG		B 237		-3.182	3.419.	54.546	1.00 23.7	
ATOM	4160	CD		B 237		-3.102	3.902	54.251	1.00 25.9	
ATOM	4161			B 237			3.668	52.779	1.00 28.0	
ATOM	4162	NE2		B 237		-2.728	3.480	51.913	1.00 31.1	
ATOM	4165	C				-4.901	3.668	52.504	1.00 26.4	
ATOM	4166	0		B 237		-0.301	2.154	56.082	1.00 23.2	6
ATOM	4167	N		B 237 B 238		-0.547	0.993	56.381	1.00 22.6	
ATOM	4169	CA				0.936	2.576	55.819	1.00 23.3	
ATOM	4171	CB	CYC	B 238 B 238		2.079	1.666	55.937	1.00 23.6	2
ATOM	4174	SG		B 238		3.377	2.350	55.486	1.00 23.3	
ATOM	4175					3.308	2.714	53.694	1.00 26.2	
MOTA	4176	C		B 238		2.187	1.057	57.353	1.00 23.4	8 .
ATOM	4177	O N		B 238		2.440	-0.130	57.474	1.00 22.8	
ATOM	4177			B 239		1.959	1.856	58.402	1.00 23.1	
ATOM	4179	CA		B 239		2.044	1.368	59.776	1.00 23.6	4
ATOM	4184	CB CG		B 239		1.873	2.490	60.821	1.00 23.3	6
ATOM	4185			B 239		2.940	3.576	60.740	1.00 23.7	0
ATOM	4186	OD1		B 239		4.021	3.372	60.189	1.00 26.5	
ATOM		ND2		B 239		2.632	4.745	61.293	1.00 18.9	4
ATOM	4189	C		B 239		0.948	0.334	60.019	1.00 24.5	6
ATOM	4190	0		B 239		1.210	-0.709	60.599	1.00 24.5	
	4191 4193	N		B 240		-0.281	0.633	59.593	1.00 25.2	
ATOM	4195	CA		B 240		-1.400	-0.308	59.742	1.00 26.5	
ATOM		CB		B 240		-2.705	0.280	59.158	1.00 27.3	
ATOM	4198 · 4201	CG		B 240		-3.245	1.536	59.894	1.00 29.0	
ATOM		CD	PIS	B 240		-4.709	1.862	59.503	1.00 32.6	
ATOM	4204	CE		B 240		-4.870	2.417	58.053	1.00 34.4	
ATOM	4207 4211	NZ		B 240		-4.339	3.837	57.829	1.00 34.3	
ATOM	4212	C		B 240		-1.090	-1.680	59.104	1.00 26.0	
ATOM		0		B 240		-1.430	-2.707	59.653	1.00 26.0	
	4213	N		B 241		-0.396	-1.681	57.975	1.00 26.2	
ATOM	4215	CA		B 241		0.019	-2.911	57.288	1.00 26.5	
ATOM	4217	CB		B 241		0.645	-2.542	55.944	1.00 27.4	5
ATOM ATOM	4220	CG		B 241		0.621	-3.619	54.921	1.00 30.6	
•	4223	CD		B 241		1.824	-3.649	54.026	1.00 35.8	
ATOM	4226	NE		B 241		2.384	-5.002	53.975	1.00 41.1	
ATOM	4228	CZ		B 241		3.592	-5.301	53.511	1.00 43.6	
ATOM	4229	NH1	AKG	B 241		4.386	-4.361	53.019	1.00 43.0	
ATOM	4232			B 241		3.996	-6.562	53.534	1.00 46.6	
ATOM	4235	C		B 241		1.019	-3.733	58.111	1.00 25.7	
ATOM	4236	0		B 241		0.880	-4.944	58.249	1.00 26.5	
ATOM	4237	N		B 242		2.023	-3.057	58.644	1.00 24.8	
ATOM	4239	CA	SER	B 242		2.947	-3.599	59.646	1.00 24.4	2

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ATOM ATOM ATOM ATOM ATOM ATOM	4241 4244 4246 4247 4248 4250	OG C O N CA	SER I SER I SER I SER I PHE I	B	242 242 242 243 243		-2.472 -2.071 -4.249 -5.265 -3.633 -4.161	60.199 59.273 60.847 61.345 61.339 62.511	1.00 1.00 1.00 1.00 1.00	23.14 24.21 23.74 24.47 25.38	000010
ATOM ATOM ATOM ATOM	4252 4255 4256	CG CD1	PHE DHE DUE	B B	243 243	-0.588 -0.056 -0.953	-3.201 -1.848 -0.824	63.095 63.543 63.854	1.00 1.00 1.00	26.76 28.25	0000
ATOM	4258 4260	CZ	PHE :	В	243	-0.501 0.873	0.431 0.685	64.255 64.347	$1.00 \\ 1.00$	_	C
ATOM	4262		PHE :			1.771	-0.317	64.058	1.00		С
ATOM ATOM	4264 4266		PHE			1.312 -0.211	-1.580 -5.443	63.654 62.070	1.00	27.96 25.24	C
ATOM	4267		PHE			-0.099	-6.440	62.748	-	25.43	ŏ
MOTA	4268	N	SER	В	244	-0.878	-5.392	60.916	1.00	25.73	N
ATOM	4270	CA	SER			-1.553	-6.548	60.280		26.24	C
ATOM ATOM	4272 4275	CB OG	SER SER			-2.224 -3.539	-6.123 -5.700	58.967 59.225		26.59 28.45	C O
ATOM	4277	C	SER			-0.670	-7.738	59.934		25.30	င
ATOM	4278	ō	SER			-1.139		59.904		26.13	o
MOTA	4279	N	ASP			0.593		59.658		24.75	N
ATOM	4281	CA	ASP			1.488	-8.568	59.255		24.52	C
ATOM ATOM	4283 4286	CB CG	ASP ASP			2.363 1.541		58.062 56.829		24.71 25.49	C
ATOM	4287		ASP			0.384		56.688		28.15	Õ
MOTA	4288		ASP			1.975		55.941		30.97	Ö
MOTA	4289	С	ASP			2.371		60.410		23.74	С
ATOM	4290	0	ASP				-10.035	60.246		23.57	0
ATOM ATOM	4291 4293	N CA	GLN GLN			2.321 3.081		61.560 62.730		22.64 21.91	N C
ATOM	4295	CB	GLN			2.906		63.958		21.50	c
ATOM	4298	CG	GLN			3.515		65.234		19.68	С
MOTA	4301	CD	GLN			3.629		66.413		18.64	C
ATOM	4302		GLN			4.209		66.312		15.04	0
ATOM ATOM	4303 4306	NE2 C	GLN GLN			3.123 2.759	-7.972 -10.257	67.550 63.072		18.09 22.12	N C
ATOM	4307	õ	GLN				-11.022	63.322		22.39	ŏ
ATOM	4308	N	PRO				-10.653	63.073		22.38	N
MOTA	4309	CA	PRO				-12.056	63.298		22.33	C
ATOM	4311	CB	PRO				-12.017	63.286		22.35	C
ATOM ATOM	4314 4317	CG CD	PRO PRO			0.283	-10.623 -9.814	63.451 62.878		22.68	C
ATOM	4320	C	PRO				-13.077	62.254		22.55	č
MOTA	4321	0	PRO	В	247	1.449	-14.277	62.506			0
ATOM	4322	N	LYS				-12.626	61.103		23.24	N
ATOM ATOM	4324	CA	LYS				-13.502 $-12.814$			23.63	C
ATOM	4326 4329	CB CG	LYS LYS				-12.614	58.674 58.302		24.19 25.17	C
ATOM	4332	CD	LYS				-12.261			27.89	č
ATOM	4335	CE			248		-11.655	56.518		29.11	С
ATOM	4338	NZ			248		-10.310			29.48	N
ATOM ATOM	4342 4343	C O			248 248		-13.869 -14.818			23.57	C 0
ATOM	4344	N			249		-13.095			22.55	N
ATOM	4346	CA			249		-13.193			23.94	Ċ
MOTA	4348	CB	VAL	В	249		-11.902	61.761	1.00	24.05	C
ATOM	4350		VAL				-12.060			23.37	С
MOTA MOTA	4354 4358	CG2	VAL VAL		249		-10.705   -14.385			23.82 24.33	C
ATOM	4359	Ö			249		-14.503			24.36	Ö

ATOM 4362 CR ATR B 250	ATOM	4360	N	THR	B 250	7.584	-15.135	61.555	1 00	24 50		
ATOM 4366 CB THR B 250 9,238 -16,936 61.146 1.00 24.153 C ATOM 4368 CG2 THR B 250 8.768 -17.193 60.132 1.00 25.59 C ATOM 4373 C THR B 250 8.635 -15.806 63.616 1.00 24.153 C ATOM 4373 C THR B 250 8.635 -15.806 63.616 1.00 24.133 C ATOM 4373 C THR B 250 8.635 -15.806 63.616 1.00 23.78 C ATOM 4373 C THR B 250 8.635 -15.806 63.616 1.00 23.78 C ATOM 4374 N PRO B 251 8.027 -16.266 64.712 1.00 23.65 N ATOM 4375 CA PRO B 251 8.027 -16.266 64.712 1.00 23.65 N ATOM 4377 CB PRO B 251 8.027 -16.266 64.712 1.00 23.24 C ATOM 4377 CB PRO B 251 8.027 -16.266 66.98 1.00 23.24 C ATOM 4383 CD PRO B 251 6.946 -17.275 66.054 1.00 23.40 C ATOM 4383 CD PRO B 251 6.946 -17.275 66.5874 1.00 23.40 C ATOM 4387 O PRO B 251 10.600 -16.720 65.874 1.00 22.13 90 C ATOM 4398 N TRE B 252 11.050 -16.720 66.350 1.00 22.13 N ATOM 4390 CA TRE B 252 11.763 -14.866 67.651 1.00 22.13 N ATOM 4395 CG TRE B 252 11.763 -14.860 67.651 1.00 22.13 N ATOM 4396 CD1 TRE B 252 11.763 -14.860 67.651 1.00 22.13 N ATOM 4398 NEI TRE B 252 11.200 -13.365 69.064 1.00 19.35 C ATOM 4398 NEI TRE B 252 13.200 -13.365 70.038 1.00 14.85 N ATOM 4400 CE2 TRE B 252 15.461 -12.203 69.064 1.00 19.35 C ATOM 4401 CD2 TRE B 252 15.461 -12.203 69.064 1.00 19.35 C ATOM 4404 C23 TRE B 252 15.461 -12.203 69.064 1.00 13.37 C ATOM 4401 CD2 TRE B 252 15.461 -12.203 69.091 1.00 14.93 C ATOM 4404 C23 TRE B 252 15.461 -12.203 69.091 1.00 14.93 C ATOM 4401 CD2 TRE B 252 15.461 -12.203 69.091 1.00 14.93 C ATOM 4404 C23 TRE B 252 15.461 -12.203 69.091 1.00 13.77 C ATOM 4408 C22 TRE B 252 16.662 -12.150 68.991 1.00 13.77 C ATOM 4401 CD TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM 4401 CD TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM 4401 CD TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM 4404 C3 CB TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM 4404 C3 CB TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM 4404 C CB TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM 4404 C CB TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM 4404 C CB TRE B 252 16.692 -12.150 68.991 1.00 13.77 C ATOM		4362	CA			8.104	-16.291					N
ATOM 4366 CG1 THR B 250			CB			9.238	~16.936					
ATOM 4376 CG2 THR B 250 9,596 -18,319 62,011 1.00 23,78 C ATOM 4373 O THR B 250 9,579 -15,004 63,650 1.00 23,96 ON ATOM 4374 N PRO B 251 8,027 -16,266 64,712 1.00 23,65 N ATOM 4375 CA PRO B 251 8,027 -16,266 64,712 1.00 23,24 C C ATOM 4375 CA PRO B 251 8,027 -16,266 64,712 1.00 23,24 C C ATOM 4376 CB PRO B 251 7,638 -16,744 66,998 1.00 23,24 C C ATOM 4380 CG PRO B 251 6,946 -17,275 64,765 1.00 23,90 C C ATOM 4380 CC PRO B 251 6,946 -17,275 64,765 1.00 23,40 C C ATOM 4386 C PRO B 251 10,600 -16,720 66,365 1.00 22,61 C C ATOM 4386 C PRO B 251 10,600 -16,720 66,380 1.00 22,61 C C ATOM 4387 O PRO B 251 10,600 -16,720 66,380 1.00 22,61 C C ATOM 4387 O PRO B 251 10,600 -16,720 66,380 1.00 22,13 N N ATOM 4399 CA THR B 252 11,705 -14,866 67,651 1.00 22,13 N N ATOM 4395 CG TRF B 252 11,705 -14,866 67,651 1.00 22,13 N N ATOM 4395 CG TRF B 252 11,705 -14,866 67,651 1.00 22,13 N N ATOM 4398 NEI TRF B 252 13,280 -13,365 69,064 1.00 12,180 C C ATOM 4398 NEI TRF B 252 13,280 -13,365 69,064 1.00 12,180 C C ATOM 4398 NEI TRF B 252 13,200 -13,365 69,064 1.00 14,93 C C ATOM 4040 C CEZ TRF B 252 15,005 -13,221 70,495 1.00 14,93 C C ATOM 4040 C CEZ TRF B 252 14,390 -12,753 68,395 1.00 16,85 C C ATOM 4040 C CEZ TRF B 252 14,595 -12,244 67,100 1.00 16,75 C C ATOM 4040 C CEZ TRF B 252 14,595 -12,244 67,100 1.00 16,75 C C ATOM 4040 C CEZ TRF B 252 15,683 -11,734 67,70 1,00 13,87 C C ATOM 4040 C CEZ TRF B 252 16,683 -11,734 67,70 1,00 13,87 C C ATOM 4040 C CEZ TRF B 252 16,863 -11,765 68,935 1.00 1,00 13,95 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 1,00 13,95 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 23,31 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 23,31 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 23,31 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 23,31 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 23,31 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 23,31 C C ATOM 4041 C CZ TRF B 252 16,863 -11,765 68,935 1.00 23,31 C C ATOM 4041 C CZ TRF B 253 14,430 -1				THR	B 250	8.783	-17.193					
ATOM 4373 C THR B 250			CG2			9.596	-18.319				,	
ATOM 4373 O THR B 250 9.579 -15.004 63.650 1.00 23.96 O ATOM 4374 N PROB 251 8.027 -16.266 64.712 1.00 23.65 N ATOM 4377 CB PRO B 251 8.389 -15.781 66.054 1.00 23.24 C C ATOM 4377 CB PRO B 251 7.638 -16.744 66.998 1.00 23.24 C C ATOM 4380 CC PRO B 251 6.946 -17.275 64.765 1.00 23.40 C C ATOM 4383 CD PRO B 251 6.946 -17.275 64.765 1.00 23.40 C C ATOM 4386 C PRO B 251 10.600 -16.720 66.350 1.00 22.61 C C ATOM 4386 C PRO B 251 10.600 -16.720 66.350 1.00 22.26 C C ATOM 4386 C PRO B 251 10.600 -16.720 66.350 1.00 22.213 N ATOM 4380 N TRP B 252 10.347 -14.866 67.135 1.00 22.13 N ATOM 4390 CA ATOM 4392 CB TRP B 252 11.705 -14.860 67.651 1.00 22.13 N ATOM 4392 CB TRP B 252 11.705 -14.860 67.651 1.00 22.13 N ATOM 4396 CD TRP B 252 11.705 -14.860 68.505 1.00 22.180 C ATOM 4398 NEI TRP B 252 13.280 -13.365 69.064 1.00 12.180 C ATOM 4396 CD TRP B 252 13.200 -13.365 69.064 1.00 12.180 C ATOM 4396 CD TRP B 252 13.200 -13.365 69.064 1.00 14.93 C ATOM 4400 C C2 TRP B 252 13.200 -12.753 69.064 1.00 14.93 C ATOM 4401 CD2 TRP B 252 14.390 -12.753 68.395 1.00 14.93 C ATOM 4401 CD2 TRP B 252 14.595 -12.244 67.100 1.00 16.75 C ATOM 4404 C23 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4406 C22 TRP B 252 15.683 -11.734 67.100 13.95 C ATOM 4406 C22 TRP B 252 15.883 -11.734 67.100 13.95 C ATOM 4406 C22 TRP B 252 16.863 -11.768 68.951 1.00 13.95 C ATOM 4401 CD2 TRP B 252 16.863 -11.768 66.991 1.00 13.95 C ATOM 4410 C TRP B 252 16.863 -11.768 68.951 1.00 13.95 C ATOM 4411 C TRP B 252 16.863 -11.734 67.700 1.00 13.95 C ATOM 4410 C TRP B 252 16.863 -11.734 67.700 1.00 13.95 C ATOM 4411 C TRP B 252 16.863 -11.734 67.700 1.00 13.95 C ATOM 4411 C TRP B 252 16.863 -11.734 67.700 1.00 13.95 C ATOM 4411 C TRP B 252 16.863 -11.734 67.700 1.00 13.95 C ATOM 4411 C TRP B 252 16.863 -11.736 68.851 1.00 23.31 C ATOM 4411 C TRP B 252 16.863 -11.736 68.851 1.00 23.31 C ATOM 4411 C TRP B 252 16.863 -11.736 68.851 1.00 23.31 C C ATOM 4411 C D TRP B 252 1.00 97 7-16.473 68.951 1.00 23.31 C C ATOM 4411 C D TRP B 253 1.00 1.00 23.31 C C ATOM 4411 C D TR			С			8.635	-15.806				•	
ATOM 4375 CA PRO B 251 8.389 -15.781 66.054 1.00 23.24 C C ATOM 4377 CB PRO B 251 7.638 -16.744 66.998 1.00 23.24 C C ATOM 4383 CD PRO B 251 6.946 -17.275 64.765 1.00 23.90 C C ATOM 4383 CD PRO B 251 6.946 -17.275 64.765 1.00 23.90 C C ATOM 4383 CD PRO B 251 10.600 -16.720 65.874 1.00 23.90 C C ATOM 4387 O PRO B 251 10.600 -16.720 65.874 1.00 22.38 C C ATOM 4387 O PRO B 251 10.600 -16.720 65.874 1.00 22.38 C C ATOM 4390 CA TRP B 252 11.705 -14.860 67.651 1.00 22.13 N C ATOM 4390 CA TRP B 252 11.705 -14.860 67.651 1.00 22.13 N C ATOM 4395 CC TRP B 252 11.899 -13.608 68.505 1.00 19.35 C C ATOM 4395 CC TRP B 252 11.899 -13.608 68.505 1.00 19.35 C C ATOM 4396 CD TRP B 252 11.890 -13.608 68.505 1.00 19.35 C C ATOM 4396 CD TRP B 252 13.280 -13.365 69.064 1.00 19.35 C C ATOM 4398 N TRP B 252 15.005 -13.221 70.495 1.00 14.85 C C ATOM 4398 N TRP B 252 15.005 -13.221 70.495 1.00 14.85 C C ATOM 4401 CD TRP B 252 14.390 -12.753 68.395 1.00 14.85 C ATOM 4401 CD TRP B 252 14.390 -12.753 68.395 1.00 14.85 C ATOM 4404 C C23 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C C ATOM 4404 C C23 TRP B 252 15.838 -11.734 66.770 1.00 13.87 C C ATOM 4406 C C22 TRP B 252 16.662 -11.665 67.712 1.00 13.87 C C ATOM 4401 C TRP B 252 16.662 -11.665 67.712 1.00 13.87 C C ATOM 4401 C TRP B 252 16.662 -11.665 67.712 1.00 13.87 C C ATOM 4401 C TRP B 252 10.997 -16.473 69.256 1.00 23.18 C C ATOM 4410 C TRP B 252 10.997 -16.473 69.256 1.00 23.18 C C ATOM 4411 O TRP B 252 10.997 -16.473 69.256 1.00 23.18 C C ATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N N ATOM 4412 N PRO B 253 13.053 -16.756 68.395 1.00 23.18 C C ATOM 4424 C PRO B 253 13.053 -16.756 68.395 1.00 23.18 C C ATOM 4426 N LEU B 254 11.518 -17.735 73.660 1.00 23.18 C C ATOM 4426 N LEU B 254 11.518 -17.735 73.660 1.00 29.19 C C ATOM 4426 N LEU B 254 12.666 -17.662 -17.862 67.947 1.00 25.34 N N ATOM 4415 C R PRO B 253 13.00 253 14.548 -17.548 1.00 25.34 N N ATOM 4426 N LEU B 254 12.666 -17.366 -17.366 1.00 25.34 N N ATOM 4426 N LEU B 254 12.666 -17.366 -17.366 1.00 25.34 N N N ATOM 4						9.579	-15.004					
ATOM 4375 CG PRO B 251 7.638 -16.744 66.994 1.00 23.24 CC ATOM 4380 CC PRO B 251 6.496 -17.284 66.994 1.00 23.40 CC ATOM 4380 CC PRO B 251 6.496 -17.284 66.199 1.00 23.40 CC ATOM 4386 C PRO B 251 10.600 -16.720 65.874 1.00 22.38 OC ATOM 4386 N TRP B 252 110.347 -14.866 67.135 1.00 22.38 OC ATOM 4388 N TRP B 252 110.347 -14.866 67.135 1.00 22.38 OC ATOM 4388 N TRP B 252 110.347 -14.866 67.135 1.00 22.13 ATOM 4390 CA TRP B 252 11.705 -14.860 67.651 1.00 22.13 OC ATOM 4395 CC TRP B 252 11.705 -14.860 67.651 1.00 22.14 CC ATOM 4395 CC TRP B 252 11.899 -13.608 68.505 1.00 21.80 CC ATOM 4395 CC TRP B 252 13.200 -13.3655 69.064 1.00 19.35 CC ATOM 4396 CC TRP B 252 13.200 -13.3655 69.064 1.00 19.35 CC ATOM 4306 CC TRP B 252 15.005 -13.221 70.495 1.00 14.85 CC ATOM 4400 CE2 TRP B 252 15.005 -13.221 70.495 1.00 14.85 CC ATOM 4401 CC2 TRP B 252 14.595 -12.268 369.319 1.00 14.85 CC ATOM 4404 CC2 TRP B 252 14.595 -12.244 67.100 1.00 16.95 CC ATOM 4404 CC2 TRP B 252 15.65 -13.221 70.495 1.00 14.85 CC ATOM 4404 CC2 TRP B 252 15.65 -13.221 70.495 1.00 13.87 CC ATOM 4406 CC2 TRP B 252 15.85 -11.685 -11.685 67.70 1.00 13.87 CC ATOM 4406 CC2 TRP B 252 15.85 -11.695 67.70 1.00 13.87 CC ATOM 4401 CC2 TRP B 252 15.65 -11.695 67.70 1.00 13.87 CC ATOM 4401 CC2 TRP B 252 15.65 -11.695 67.70 1.00 13.87 CC ATOM 4410 CC TRP B 252 11.902 -16.099 68.503 1.00 23.31 CC ATOM 4410 CC TRP B 252 11.902 -16.099 68.503 1.00 23.31 CC ATOM 4412 N PRO B 253 13.363 -16.756 68.395 1.00 23.31 CC ATOM 4412 N PRO B 253 13.365 -16.756 68.395 1.00 23.31 CC ATOM 4412 N PRO B 253 13.365 -16.756 68.395 1.00 23.31 CC ATOM 4412 CC PRO B 253 13.365 -16.756 68.395 1.00 23.31 CC ATOM 4412 CC PRO B 253 13.365 -16.756 68.395 1.00 23.31 CC ATOM 4412 CC PRO B 253 13.366 -17.56 68.395 1.00 25.566 CC ATOM 4412 CC PRO B 253 13.366 -17.56 68.395 1.00 25.90 CC ATOM 4424 CC PRO B 253 13.595 1.736 68.395 73.00 3.00 3.93 CC ATOM 4426 CC PRO B 253 13.366 1.756 73.660 1.00 29.99 CC ATOM 4426 CC PRO B 253 13.360 -17.766 73.594 73.390 1.00 29.99 CC ATOM 4426 CC PRO B 253 13.156 73.												
ATOM 4380 CG PRO B 251 7.638 -16.744 66.998 1.00 23.24 C ATOM 4383 CD PRO B 251 6.946 -17.295 64.765 1.00 23.90 CD ATOM 4383 CD PRO B 251 9.889 -15.829 66.350 1.00 23.90 CD ATOM 4387 0 PRO B 251 10.600 -16.720 65.874 1.00 23.90 CD ATOM 4387 0 PRO B 251 10.600 -16.720 65.874 1.00 22.38 ATOM 4388 N TRY B 252 10.347 -14.860 67.651 1.00 22.13 N TATOM 4390 CA TRY B 252 11.705 -14.860 67.651 1.00 22.13 N TATOM 4390 CA TRY B 252 11.809 -13.609 68.505 1.00 22.14 ATOM 4395 CC TRY B 252 11.809 -13.609 68.505 1.00 22.14 ATOM 4395 CC TRY B 252 11.809 -13.609 68.505 1.00 22.14 ATOM 4395 CC TRY B 252 11.809 -13.609 68.505 1.00 21.80 C ATOM 4396 CD TRY B 252 15.001 -13.617 70.338 1.00 16.85 CC ATOM 4396 CD TRY B 252 15.005 -13.221 70.495 1.00 14.85 C ATOM 4306 CD TRY B 252 15.405 1-12.683 69.319 1.00 14.85 ATOM 4401 CD TRY B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4404 C23 TRY B 252 14.595 -12.244 67.100 1.00 16.75 C ATOM 4404 CC23 TRY B 252 14.595 -12.244 67.100 1.00 16.75 C ATOM 4406 CH2 TRY B 252 16.692 -12.150 68.991 1.00 13.87 ATOM 4406 CH2 TRY B 252 16.692 -12.150 68.991 1.00 13.78 ATOM 4401 C TRY B 252 16.692 -12.150 68.991 1.00 13.78 ATOM 4401 C TRY B 252 10.997 -16.473 69.256 1.00 23.11 C ATOM 4410 C TRY B 252 10.997 -16.473 69.256 1.00 23.11 C ATOM 4410 C TRY B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4410 C TRY B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4410 C TRY B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4410 C TRY B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 O TRY B 252 10.997 -16.473 69.256 1.00 23.18 C ATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4415 CB PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4424 C PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4424 C PRO B 253 14.158 -17.755 73.660 1.00 23.19 C ATOM 4426 N LEU B 254 12.866 -17.362 67.947 1.00 25.34 C ATOM 4426 N LEU B 254 12.866 -17.362 67.947 1.00 25.34 C ATOM 4426 N LEU B 254 12.866 -19.616 -19.616 N 20.00 23.10 C ATOM 4426 N LEU B 254 12.266 -19.616						8.389	-15.781					
ATOM 4380 CC PRO B 251 6.496 -17, 284 66.199 1.00 23.40 C ATOM 4386 C PRO B 251 9.889 -15.829 66.350 1.00 22.61 C ATOM 4386 C PRO B 251 10.600 -16.720 65.874 1.00 22.38 O ATOM 4388 N TRP B 252 110.347 -14.866 67.135 1.00 22.38 O ATOM 4388 N TRP B 252 110.347 -14.866 67.135 1.00 22.38 O ATOM 4390 CA TRP B 252 110.347 -14.866 67.135 1.00 22.13 N ATOM 4395 CG TRP B 252 11.705 -14.860 67.651 1.00 22.14 C ATOM 4395 CG TRP B 252 11.705 -14.860 67.651 1.00 22.14 C ATOM 4395 CG TRP B 252 11.899 -13.608 68.505 1.00 21.80 C ATOM 4395 CG TRP B 252 13.200 -13.365 69.064 1.00 19.35 C ATOM 4396 CD1 TRP B 252 15.005 -13.221 70.495 1.00 14.85 C ATOM 4396 CD1 TRP B 252 15.005 -13.221 70.495 1.00 14.85 C ATOM 4400 CE2 TRP B 252 15.005 -13.221 70.495 1.00 14.85 C ATOM 4401 CC2 TRP B 252 14.595 -12.244 67.100 10.00 16.95 C ATOM 4401 CC2 TRP B 252 14.595 -12.244 67.100 1.00 16.95 C ATOM 4404 C23 TRP B 252 15.83 -11.734 66.770 1.00 13.87 C ATOM 4406 CR2 TRP B 252 15.83 -11.734 66.770 1.00 13.87 C ATOM 4408 CZ2 TRP B 252 16.863 -11.685 67.712 1.00 13.85 C ATOM 4408 CZ2 TRP B 252 16.863 -11.685 67.712 1.00 13.87 C ATOM 4410 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4410 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 O TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4412 N PRO B 253 13.362 -17.882 69.266 1.00 25.77 C ATOM 4412 N PRO B 253 13.362 -17.882 69.266 1.00 25.77 C ATOM 4412 CD PRO B 253 13.362 -17.782 68.395 1.00 24.63 N ATOM 4413 CA PRO B 253 13.362 -17.782 69.366 1.00 25.77 C ATOM 4412 CD PRO B 253 13.362 -17.782 69.366 1.00 25.77 C ATOM 4412 CD PRO B 253 13.363 -16.756 68.393 1.00 24.81 C ATOM 4418 CG PRO B 253 13.362 -17.782 69.266 1.00 25.77 C ATOM 4418 CG PRO B 253 13.363 -16.756 68.393 1.00 24.81 C ATOM 4418 CG PRO B 253 13.363 -16.756 68.393 1.00 24.81 C ATOM 4418 CG PRO B 253 13.363 -16.756 68.393 1.00 24.81 C ATOM 4428 CA LEU B 254 12.816 -17.755 73.660 1.00 29.99 C ATOM 4426 CA EU B 254 12.816 -17.755 73.660 1.00 29.99 C ATOM 4426 CR EU B 254 12.816 -17.755 73.660 1.00 29.99 C ATOM 4426 CA EU B						7.638	-16.744					
ATOM 4386 C PRO B 251 9.889 -15.292 66.365 1.00 23.90 C ATOM 4387 O PRO B 251 10.600 -16.720 65.874 1.00 22.38 O ATOM 4387 O PRO B 251 10.600 -16.720 65.874 1.00 22.38 O ATOM 4388 N TRP B 252 10.347 -14.866 67.651 1.00 22.13 N ATOM 4390 CA TRP B 252 11.705 -14.860 67.651 1.00 22.13 N ATOM 4392 CB TRP B 252 11.899 -13.608 68.505 1.00 21.80 C ATOM 4395 CG TRP B 252 11.899 -13.608 68.505 1.00 21.80 C ATOM 4396 CD1 TRP B 252 13.280 -13.365 69.064 1.00 19.35 C ATOM 4396 CD1 TRP B 252 13.280 -13.365 69.064 1.00 19.35 C ATOM 4396 CD1 TRP B 252 15.005 -13.221 70.438 1.00 16.85 C ATOM 4400 CE2 TRP B 252 15.005 -13.221 70.438 1.00 16.85 C ATOM 4401 CD2 TRP B 252 15.005 -13.221 70.438 1.00 16.85 C ATOM 4401 CD2 TRP B 252 14.390 -12.689 69.319 1.00 14.93 C ATOM 4404 CZ3 TRP B 252 14.595 -12.244 66.770 1.00 13.87 C ATOM 4404 CZ3 TRP B 252 14.595 -12.244 66.770 1.00 13.87 C ATOM 4406 CH2 TRP B 252 15.838 -11.685 67.712 1.00 13.95 C ATOM 4406 CH2 TRP B 252 16.863 -11.685 67.712 1.00 13.95 C ATOM 4410 C TRP B 252 16.863 -11.685 67.712 1.00 13.78 C ATOM 4411 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 O TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 C TRP B 253 13.365 -16.756 68.383 1.00 24.63 N ATOM 4412 C ATOM 25.33 13.053 -16.756 68.383 1.00 24.63 N ATOM 4413 CA PRO B 253 13.365 -17.738 69.256 1.00 23.18 C ATOM 4413 CA PRO B 253 13.652 -17.882 69.266 1.00 25.77 C ATOM 4415 CB PRO B 253 13.656 -17.738 69.256 1.00 23.18 C ATOM 4415 CB PRO B 253 15.266 17.738 69.756 1.00 23.18 C ATOM 4426 CD PRO B 253 15.266 17.755 73.00 1.00 24.81 C ATOM 4427 CD PRO B 253 15.266 17.765 73.00 1.00 29.19 N ATOM 4428 C A LEU B 254 12.663 -17.776 73.30 13.3 1.00 24.81 C ATOM 4428 C A LEU B 254 12.666 -17.707 77.6 13.10 1.00 29.19 N ATOM 4428 C A LEU B 254 12.666 -17.707 77.6 13.10 N O 29.93 C ATOM 4430 CB LEU B 254 12.666 -17.707 77.6 13.10 0.00 29.19 C ATOM 4445 C A LEU B 254 12.866 -17.707 77.7  77.8 13.10 0.00 29.19 C ATOM 4445 C A LEU B 254 12.866 -17.707 77.7  77.8						6.496	-17.284	66.199			•	
ATOM 4387 O PRO B 251 10.600 -16.720 65.874 1.00 22.38 O ATOM 4388 N TRP B 252 11.05 -14.866 67.135 1.00 22.13 N ATOM 4390 CA TRP B 252 11.705 -14.866 67.135 1.00 22.13 N ATOM 4390 CA TRP B 252 11.705 -14.866 67.135 1.00 22.13 N ATOM 4390 CA TRP B 252 11.705 -14.866 67.135 1.00 22.14 C ATOM 4395 CG TRP B 252 11.899 -13.608 68.505 1.00 21.80 C ATOM 4395 CG TRP B 252 13.200 -13.365 69.064 1.00 19.35 C ATOM 4396 CD1 TRP B 252 13.200 -13.365 69.064 1.00 19.35 C ATOM 4396 NEI TRP B 252 15.05 -13.221 70.495 1.00 14.85 N ATOM 4400 CE2 TRP B 252 15.451 -12.683 69.319 1.00 14.85 N ATOM 4401 CD2 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4401 CD2 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4401 CD2 TRP B 252 15.685 -11.734 66.770 1.00 13.87 C ATOM 4404 CZ3 TRP B 252 15.888 -11.734 66.770 1.00 13.87 C ATOM 4406 CH2 TRP B 252 16.682 -12.150 68.991 1.00 13.95 C ATOM 4408 CZ2 TRP B 252 16.692 -12.150 68.991 1.00 13.78 C ATOM 4401 CD2 TRP B 252 10.997 -16.473 69.256 1.00 23.38 C ATOM 4410 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 O TRP B 252 11.902 -16.099 68.503 1.00 23.38 C ATOM 4411 C TRP B 253 13.053 -16.756 68.393 1.00 23.18 C ATOM 4412 N PRO B 253 13.053 -16.756 68.393 1.00 23.18 C ATOM 4412 N PRO B 253 13.053 -16.756 68.393 1.00 23.18 C ATOM 4412 N PRO B 253 13.053 -16.756 68.393 1.00 23.18 C ATOM 4415 CB PRO B 253 13.526 -17.882 69.266 1.00 25.77 C ATOM 4415 CB PRO B 253 13.526 -17.362 67.947 1.00 25.66 C ATOM 4424 C PRO B 253 14.543 -16.622 70.941 1.00 25.374 C ATOM 4424 C PRO B 253 14.543 -16.622 70.941 1.00 25.374 C ATOM 4425 N PRO B 253 13.503 -16.750 68.393 1.00 23.18 C ATOM 4426 N PRO B 253 14.543 -16.622 70.941 1.00 27.00 O O O ATOM 4426 N PRO B 253 14.543 -16.622 70.941 1.00 27.00 O O O ATOM 4426 N PRO B 253 14.543 -16.622 70.941 1.00 27.00 O O O ATOM 4426 N PRO B 254 12.863 -17.765 73.606 1.00 29.19 C ATOM 4426 N PRO B 254 12.863 -17.765 73.198 1.00 30.33 C C ATOM 4430 CB LEU B 254 12.863 -17.765 73.198 1.00 30.33 C C ATOM 4445 N PRO B 254 12.266 -19.616 74.003 1.00 30.33 C C ATOM						6.946	-17.275					
ATOM 4380 N TRP B 252 10.347 -14.866 67.651 1.00 22.38 O   ATOM 4390 CA TRP B 252 11.705 -14.860 67.651 1.00 22.13 N   ATOM 4392 CB TRP B 252 11.705 -14.860 67.651 1.00 22.14 C   ATOM 4395 CG TRP B 252 11.899 -13.606 86.505 1.00 21.80 C   ATOM 4396 CD1 TRP B 252 13.280 -13.365 69.064 1.00 19.35 C   ATOM 4396 CD1 TRP B 252 13.701 -13.617 70.338 1.00 16.85 C   ATOM 4396 NE1 TRP B 252 15.005 -13.221 70.495 1.00 14.85 N   ATOM 400 CE2 TRP B 252 15.005 -13.221 70.495 1.00 14.85 N   ATOM 401 CD2 TRP B 252 15.505 -13.221 70.495 1.00 14.93 C   ATOM 4040 CE2 TRP B 252 15.505 -13.221 70.495 1.00 16.95 C   ATOM 4040 CE2 TRP B 252 15.505 -13.221 70.495 1.00 14.85 N   ATOM 404 CC2 TRP B 252 16.692 -12.150 68.991 1.00 13.87 C   ATOM 404 CC2 TRP B 252 16.692 -12.150 68.991 1.00 13.87 C   ATOM 404 CC2 TRP B 252 16.692 -12.150 68.991 1.00 13.78 C   ATOM 404 C   ATOM 408 C22 TRP B 252 16.692 -12.150 68.991 1.00 13.78 C   ATOM 401 C   ATOM 411 C   ATOM 421 N PRO B 253 13.362 -17.892 69.266 1.00 23.31 C   ATOM 4413 CA   ATOM 4413 CA   ATOM 4413 CA   ATOM 4415 CB   ATOM 253 13.362 -17.892 69.266 1.00 25.77 C   ATOM 4418 CG   ATOM 4418 CG   ATOM 2424 C   ATOM 2426 N   ATOM 2427 N   ATOM 2428 C   ATOM 2439 C   ATOM 2430 CB   ATOM 24418 CG   ATOM 2428 C   ATOM 2424 C   ATOM 2424 C   ATOM 2424 C   ATOM 2426 N   ATOM 2427 N   ATOM 2427 N   ATOM 2428 C   ATOM 2428 C   ATOM 2428 C   ATOM 2439 C   ATOM 2430 CB   ATOM 2430 CB   ATOM 2430 CB   ATOM 2440 C   ATOM 2440 C   ATOM 2440 C   ATOM 2440 C   ATOM 2450 O   ATOM 2550 O						9.889	-15.829	66.350				
ATOM 4390 CA 1878 B 252 11.09347 -14.866 67.135 1.00 22.13 N 1870 4390 CB TRP B 252 11.899 -13.608 68.505 1.00 22.14 CATOM 4395 CG TRP B 252 13.701 -13.617 70.338 1.00 19.35 C ATOM 4396 NEI TRP B 252 13.701 -13.617 70.338 1.00 16.85 C ATOM 4396 NEI TRP B 252 15.451 -12.683 68.395 1.00 14.93 C ATOM 4401 CD2 TRP B 252 15.451 -12.683 68.395 1.00 14.93 C ATOM 4401 CD2 TRP B 252 15.451 -12.683 68.395 1.00 14.93 C ATOM 4401 CD2 TRP B 252 15.451 -12.683 68.395 1.00 16.75 C ATOM 4402 CE3 TRP B 252 15.451 -12.683 68.395 1.00 16.75 C ATOM 4404 CZ3 TRP B 252 16.6863 -11.685 67.712 1.00 13.95 C ATOM 4404 CZ3 TRP B 252 16.6863 -11.685 67.712 1.00 13.95 C ATOM 4404 CZ3 TRP B 252 16.6863 -11.685 67.712 1.00 13.95 C ATOM 4408 CZ2 TRP B 252 16.6863 -11.685 67.712 1.00 13.95 C ATOM 4401 CT TRP B 252 16.692 -12.150 68.991 1.00 13.78 C ATOM 4410 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 C TRP B 252 10.997 -16.473 69.256 1.00 23.18 O ATOM 4412 N PRO B 253 13.362 -17.882 69.266 1.00 23.31 C ATOM 4413 CA PRO B 253 13.362 -17.882 69.266 1.00 25.77 C ATOM 4415 CB PRO B 253 13.362 -17.882 69.266 1.00 25.77 C ATOM 4415 CB PRO B 253 13.362 -17.786 69.91 1.00 15.75 C ATOM 4424 C PRO B 253 13.362 -17.786 69.91 1.00 25.34 C ATOM 4421 CP PRO B 253 13.362 -17.786 70.941 1.00 25.34 C ATOM 4421 CP PRO B 253 13.362 -17.786 70.941 1.00 25.34 C ATOM 4421 CP PRO B 253 13.591 -17.385 70.693 1.00 25.77 C ATOM 4426 CP PRO B 253 14.531 -17.786 70.991 1.00 25.34 C ATOM 4426 CP RO B 253 14.543 -16.622 70.991 1.00 25.34 C ATOM 4428 CA LEU B 254 12.663 -17.746 71.581 1.00 27.00 O ATOM 4428 CA LEU B 254 12.663 -17.746 71.581 1.00 29.17 C ATOM 4430 CB LEU B 254 12.812 -17.553 73.013 1.00 29.17 C ATOM 4431 CB LEU B 254 12.812 -17.553 73.013 1.00 29.17 C ATOM 4430 CB LEU B 254 12.812 -17.553 73.013 1.00 29.17 C ATOM 4431 CB LEU B 254 12.812 -17.553 73.013 1.00 30.93 C C ATOM 4435 CB LEU B 254 13.120 -18.933 73.450 1.00 30.93 C C ATOM 4435 CB LEU B 254 13.120 -18.933 73.500 1.00 33.20 C C ATOM 4431 CB ATOM 4445 CB ATOM 4450 CB ATOM 4450 CB ATOM 44						10.600	-16.720	65.874				
ATOM 4392 CB TRP B 252 11.705 -14.860 67.651 1.00 22.14 C ATOM 4395 CG TRP B 252 13.280 -13.365 69.064 1.00 19.35 C ATOM 4396 CD1 TRP B 252 13.280 -13.365 69.064 1.00 19.35 C ATOM 4396 CD1 TRP B 252 15.005 -13.221 70.495 1.00 14.85 N ATOM 4400 CE2 TRP B 252 15.005 -13.221 70.495 1.00 14.85 N ATOM 4401 CD2 TRP B 252 15.005 -13.221 70.495 1.00 14.85 N ATOM 4402 CE3 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4402 CE3 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4404 CC3 TRP B 252 14.395 -12.244 67.100 1.00 16.75 C ATOM 4406 CH2 TRP B 252 16.863 -11.685 67.712 1.00 13.87 C ATOM 4406 CT2 TRP B 252 16.863 -11.685 67.712 1.00 13.87 C ATOM 4406 CT2 TRP B 252 16.863 -11.685 67.712 1.00 13.87 C ATOM 4410 C TRP B 252 16.963 -11.685 67.712 1.00 13.78 C ATOM 4410 C TRP B 252 10.902 -16.099 68.503 1.00 23.31 C ATOM 4411 O TRP B 252 10.997 -16.473 69.256 1.00 23.18 O ATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4413 CA PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4413 CA PRO B 253 13.62 -17.882 69.266 1.00 25.766 C ATOM 4418 CG PRO B 253 14.642 -18.475 69.266 1.00 25.666 C ATOM 4424 C PRO B 253 14.543 -16.652 70.411 1.00 25.34 C ATOM 4426 N EB 254 12.663 -17.362 67.947 1.00 25.34 C ATOM 4426 N EB 254 12.663 -17.365 70.693 1.00 24.81 C ATOM 4426 N EB 254 12.663 -17.746 71.581 1.00 24.81 C ATOM 4427 C PRO B 253 14.138 -16.502 67.421 1.00 29.19 N ATOM 4428 CA LEU B 254 12.663 -17.746 71.581 1.00 29.19 C ATOM 4433 CG LEU B 254 11.518 -17.755 73.360 1.00 29.19 C ATOM 4433 CG LEU B 254 11.518 -17.755 73.360 1.00 29.19 C ATOM 4433 CG LEU B 254 11.518 -17.747 71.581 1.00 30.93 C C ATOM 4446 CA ABA B 256 17.765 -23.266 76.194 1.00 34.47 C CATOM 4441 CA ABA B 256 17.765 -23.266 76.194 1.00 34.92 C CATOM 4443 CA LEU B 254 12.663 -17.766 73.398 1.00 30.99 C CATOM 4446 CA ABA B 256 17.765 -23.266 76.194 1.00 34.52 C ATOM 4460 C C ABA B 256 17.776 -22.1843 75.961 1.00 33.20 C CATOM 4461 C ABA B 256 17.776 -22.1843 75.961 1.00 33.20 C CATOM 4464 CA ABA B 256 17.776 -22.1843 75.961 1.00 34.52 C CATOM 4464 CA						10.347	-14.866					
ATOM 4395 CG TRP B 252 13.701 -13.608 68.505 1.00 21.80 C ATOM 4396 CD1 TRP B 252 13.701 -13.617 70.338 1.00 16.85 C ATOM 4396 NEI TRP B 252 15.005 -13.221 70.495 1.00 14.85 N ATOM 4401 CD2 TRP B 252 15.451 -12.683 69.319 1.00 14.85 N ATOM 4401 CD2 TRP B 252 14.390 -12.753 68.395 1.00 16.75 C ATOM 4402 CE3 TRP B 252 14.595 -12.244 67.100 1.00 16.75 C ATOM 4404 CZ3 TRP B 252 15.838 -11.734 66.770 1.00 13.87 C ATOM 4406 CZ2 TRP B 252 16.663 -11.685 67.712 1.00 13.95 C ATOM 4406 CZ2 TRP B 252 16.663 -11.685 67.712 1.00 13.95 C ATOM 4408 CZ2 TRP B 252 16.692 -12.150 68.991 1.00 13.78 C ATOM 4410 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 C TRP B 252 10.997 -16.473 69.256 1.00 23.31 C ATOM 4412 N PRO B 253 13.362 -17.882 69.266 1.00 23.77 C ATOM 4415 CB PRO B 253 13.362 -17.882 69.266 1.00 25.777 C ATOM 4415 CB PRO B 253 13.362 -17.882 69.266 1.00 25.777 C ATOM 4421 CD PRO B 253 14.642 -18.475 68.665 1.00 25.34 C ATOM 4421 CD PRO B 253 13.591 -17.385 70.693 1.00 26.95 C ATOM 4426 N LEU B 254 12.683 -17.382 70.991 1.00 27.00 C ATOM 4426 N LEU B 254 12.663 -17.746 71.811 1.00 27.00 C ATOM 4426 N LEU B 254 12.663 -17.746 71.811 1.00 29.17 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 29.17 C ATOM 4430 CB LEU B 254 11.583 -17.757 73.693 1.00 29.17 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 29.17 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 29.19 C ATOM 4430 CB LEU B 254 11.518 -17.757 73.696 1.00 29.19 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 29.10 O ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 29.17 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 29.19 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 29.99 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.811 1.00 30.99 C ATOM 4450 CB LEU B 254 12.663 -17.746 71.811 1.00 30.99 C C ATOM 4451 C GLEU B 254 12.612 -17.553 73.198 1.00 30.99 C C ATOM 4452 N ASP B 255 15.677 -20.662 74.568 1.00 33.02 C C ATOM 4454 N GLYB 255 14.742 -20.728 73.390 1.00 31.10 N ATOM 4450 C GAY B 255 14.742 -20.728 73.390 1.00 35.19 C C ATOM 44						11.705	-14.860					
ATOM 4396 CD1 TRP B 252 13.280 -13.365 69.064 1.00 19.35 C ATOM 4398 NEI TRP B 252 15.005 -13.221 70.495 1.00 14.85 N ATOM 4400 CE2 TRP B 252 15.505 -13.221 70.495 1.00 14.85 N ATOM 4401 CC2 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4402 CE3 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4404 C23 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4404 C23 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4406 CR2 TRP B 252 16.863 -11.685 67.712 1.00 13.87 C ATOM 4406 CR2 TRP B 252 16.863 -11.685 67.712 1.00 13.95 C ATOM 4410 C TRP B 252 16.992 -12.150 68.991 1.00 13.78 C ATOM 4411 O TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4413 CA PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4415 CB PRO B 253 13.053 -16.756 68.665 1.00 25.66 C ATOM 4411 CD PRO B 253 14.642 -18.475 68.665 1.00 25.66 C ATOM 4421 CD PRO B 253 14.546 -17.362 67.947 1.00 25.34 C ATOM 4424 C PRO B 253 13.591 -17.385 70.693 1.00 24.81 C ATOM 4426 N LEU B 254 12.663 -17.746 71.581 1.00 24.81 C ATOM 4426 N LEU B 254 12.663 -17.746 71.581 1.00 24.81 C ATOM 4426 N LEU B 254 12.663 -17.746 71.581 1.00 24.81 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.581 1.00 29.19 N ATOM 4430 CB LEU B 254 11.518 -17.753 73.660 1.00 29.19 N ATOM 4430 CB LEU B 254 11.518 -17.753 73.660 1.00 29.19 C ATOM 4430 CB LEU B 254 11.518 -17.753 73.660 1.00 29.19 C ATOM 4430 CB LEU B 254 11.518 -17.753 73.600 1.00 30.93 C ATOM 4444 C LEU B 254 12.663 -17.746 71.581 1.00 30.93 C ATOM 4445 N GLEU B 255 14.320 -18.933 73.450 1.00 30.93 C ATOM 4446 N LEU B 255 14.320 -18.933 73.450 1.00 30.93 C ATOM 4447 N R LEU B 255 14.320 -18.933 73.450 1.00 30.93 C ATOM 4446 N LEU B 255 14.320 -18.933 73.450 1.00 30.93 C ATOM 4446 N LEU B 254 12.266 -19.616 74.003 1.00 30.33 O ATOM 4450 N GLEU B 255 14.742 -20.728 73.390 1.00 31.10 N ATOM 4460 N ALB B 256 17.700 -19.535 73.566 1.00 33.20 C ATOM 4460 N ALB B 256 17.700 -19.535 73.566 1.00 33.20 C ATOM 4460 N ALB B 256 17.270 -21.843 75.961 1.00 36.08 C ATOM 4460 C ALA B 25						11.899	-13.608				•	
ATOM 4398 NBI TRP B 252 13.001 -13.617 70.338 1.00 16.85 NATOM 4400 CE2 TRP B 252 15.055 -13.221 70.495 1.00 14.85 NATOM 4401 CC2 TRP B 252 14.595 -12.244 67.100 1.00 16.75 CATOM 4404 C23 TRP B 252 14.595 -12.244 67.100 1.00 16.75 CATOM 4404 C23 TRP B 252 14.595 -12.244 67.100 1.00 13.75 CATOM 4404 C23 TRP B 252 14.595 -12.244 67.100 13.95 CATOM 4406 C22 TRP B 252 16.863 -11.685 67.712 1.00 13.95 CATOM 4408 C22 TRP B 252 16.863 -11.685 67.712 1.00 13.78 CATOM 4401 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C CATOM 4411 O TRP B 252 10.997 -16.473 69.256 1.00 23.31 C CATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4413 CA PRO B 253 13.362 -17.882 69.256 1.00 25.77 C CATOM 4415 CB PRO B 253 13.362 -17.882 69.266 1.00 25.77 C CATOM 4415 CB PRO B 253 14.642 -18.475 68.665 1.00 25.77 C CATOM 4421 CD PRO B 253 14.138 -16.502 67.947 1.00 26.95 C CATOM 4424 C PRO B 253 14.138 -16.502 67.947 1.00 24.81 CATOM 4426 N LEU B 254 12.663 -17.385 70.693 1.00 26.95 C CATOM 4426 N LEU B 254 12.663 -17.365 67.947 1.00 28.19 N ATOM 4426 N LEU B 254 12.663 -17.467 73.560 1.00 28.19 N ATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 28.19 N ATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 28.19 N ATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 29.17 C CATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 30.29 1.7 C CATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 30.93 C CATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 30.93 C CATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 30.93 C CATOM 4430 CB LEU B 254 10.812 -17.553 73.013 1.00 29.17 C CATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 30.93 C CATOM 4430 CB LEU B 254 12.663 -17.746 73.581 1.00 30.93 C CATOM 4444 CA						13.280	-13.365					
ATOM 400 CE2 TRP B 252 15.451 -12.683 63.319 1.00 14.93 C ATOM 4401 CD2 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4402 CE3 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4404 CZ3 TRP B 252 14.595 -12.244 67.100 1.00 16.75 C ATOM 4406 CR2 TRP B 252 15.838 -11.734 66.770 1.00 13.87 C ATOM 4406 CR2 TRP B 252 16.683 -11.685 67.712 1.00 13.95 C ATOM 4408 CZ2 TRP B 252 16.692 -12.150 68.991 1.00 13.78 C ATOM 4410 C TRP B 252 11.902 -16.099 68.503 1.00 23.31 C ATOM 4411 O TRP B 252 10.997 -16.473 68.991 1.00 13.78 C ATOM 4411 O TRP B 252 10.997 -16.473 68.256 1.00 25.31 C ATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4413 CR PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4415 CB PRO B 253 13.053 -16.756 68.665 1.00 25.77 C ATOM 4416 CR PRO B 253 14.642 -18.475 68.665 1.00 25.66 C ATOM 4421 CD PRO B 253 14.642 -18.475 68.665 1.00 25.66 C ATOM 4421 CD PRO B 253 14.138 -16.502 67.421 1.00 24.81 C ATOM 4424 C PRO B 253 14.543 -16.622 70.941 1.00 27.00 O ATOM 4426 N LEU B 254 12.663 -17.746 71.581 1.00 28.19 N ATOM 4426 N LEU B 254 12.663 -17.746 71.581 1.00 29.17 C ATOM 4430 CB LEU B 254 11.518 -17.075 73.660 1.00 29.19 C ATOM 4431 CD LEU B 254 11.518 -17.075 73.660 1.00 29.19 C ATOM 4430 CB LEU B 254 11.683 -17.746 74.388 1.00 30.93 C ATOM 4435 CD LEU B 254 11.683 -17.746 74.388 1.00 30.93 C ATOM 4436 CD LEU B 254 11.683 -17.746 74.388 1.00 30.93 C ATOM 4437 CD LEU B 254 11.689 -17.757 73.660 1.00 30.93 C ATOM 4445 N D LEU B 255 14.323 -19.372 73.113 1.00 31.10 N ATOM 4446 N D LEU B 255 14.323 -19.372 73.113 1.00 31.10 N ATOM 4447 N D LEU B 255 14.323 -19.372 73.113 1.00 31.10 N ATOM 4446 N D LEU B 255 14.323 -19.372 73.113 1.00 31.10 N ATOM 4446 N D LEU B 255 14.323 -19.372 73.113 1.00 31.10 N ATOM 4446 N D LEU B 255 14.323 -19.372 73.113 1.00 31.10 N ATOM 4450 N D LEU B 255 14.323 -19.372 73.113 1.00 31.10 N ATOM 4460 N D LEU B 255 14.323 -19.372 73.113 1.00 35.55 N ATOM 4460 N D LEU B 255 14.323 -19.372 73.113 1.00 35.55 N ATOM 4460 N D LEU B 255 14.323 -19.372 73.113 1.00 35.55 N ATOM 44						13.701	-13.617					
ATOM 4401 CD2 TRP B 252 14.390 -12.753 68.395 1.00 16.95 C ATOM 4402 CE3 TRP B 252 14.595 -12.244 67.100 1.00 16.75 C ATOM 4404 CZ3 TRP B 252 14.595 -12.244 67.100 1.00 13.87 C ATOM 4406 CZ2 TRP B 252 16.863 -11.685 67.712 1.00 13.95 C ATOM 4408 CZ2 TRP B 252 16.893 -11.685 67.712 1.00 13.95 C ATOM 4410 C TRP B 252 16.892 -12.150 68.991 1.00 13.78 C ATOM 4411 O TRP B 252 11.992 -16.099 68.503 1.00 23.31 C ATOM 4412 N PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4413 CA PRO B 253 13.053 -16.756 68.383 1.00 24.63 N ATOM 4415 CB PRO B 253 13.362 -17.882 69.266 1.00 25.77 C ATOM 4416 CP PRO B 253 13.362 -17.882 69.266 1.00 25.77 C ATOM 4421 CD PRO B 253 15.268 -17.362 67.421 1.00 25.34 C ATOM 4421 CD PRO B 253 14.538 -16.502 67.421 1.00 25.34 C ATOM 4424 C PRO B 253 14.538 -16.502 67.421 1.00 24.81 C ATOM 4426 N LEU B 254 12.663 -17.746 71.581 1.00 28.19 N ATOM 4426 N LEU B 254 12.663 -17.746 71.581 1.00 29.17 C ATOM 4430 CB LEU B 254 12.663 -17.746 71.581 1.00 29.17 C ATOM 4430 CB LEU B 254 11.518 -17.075 73.660 1.00 29.17 C ATOM 4430 CB LEU B 254 11.683 -15.687 73.198 1.00 30.29 C ATOM 4435 CDI LEU B 254 11.083 -15.687 73.198 1.00 30.93 C ATOM 4444 O LEU B 254 11.083 -15.687 73.198 1.00 30.93 C ATOM 4445 N GLUB 255 14.323 -19.372 73.131 1.00 30.93 C ATOM 4446 N GLUB 255 14.323 -19.372 73.131 1.00 30.93 C ATOM 4447 CA GLY B 255 14.323 -19.372 73.131 1.00 33.20 C ATOM 4445 N GLY B 255 14.322 -17.553 75.050 1.00 29.93 C ATOM 4445 N GLY B 255 14.322 -19.532 77.942 1.00 33.20 C ATOM 4450 C GLY B 255 15.677 -20.662 74.568 1.00 33.20 C ATOM 4451 C GLY B 255 16.004 -19.558 75.026 1.00 33.20 C ATOM 4454 CA ALA B 256 17.270 -21.843 75.961 1.00 35.55 N ATOM 4460 C ALA B 256 17.270 -21.843 75.961 1.00 35.55 N ATOM 4460 C ALA B 256 17.270 -21.843 75.961 1.00 35.55 N ATOM 4460 C ALA B 256 17.270 -21.843 75.961 1.00 35.55 N ATOM 4460 C ALA B 256 17.270 -21.843 75.961 1.00 35.55 N ATOM 4460 C ALA B 256 17.270 -21.843 75.961 1.00 35.55 N ATOM 4460 C ALA B 256 17.270 -21.843 75.961 1.00 36.08 C ATOM 4460 C ALA B 256 17.250 -2	_					15.005	-13.221					· N
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ATOM 4425 O PRO 8 253						13.591	-17.385					
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ATOM 4435 CD1 LEU B 254						11 003	-17.075		1.00	29.19		C
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ATOM 4444 O LEU B 254	ATOM	4443				13.120	-18 033					C
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ATOM 4451 O GLY B 255 16.004 -19.558 75.026 1.00 33.20 O ATOM 4452 N ALA B 256 16.126 -21.821 75.052 1.00 33.82 N ATOM 4454 CA ALA B 256 17.270 -21.843 75.961 1.00 34.52 C ATOM 4456 CB ALA B 256 17.765 -23.266 76.194 1.00 34.47 C ATOM 4461 O ALA B 256 18.410 -20.942 75.423 1.00 35.19 C ATOM 4462 N ASP B 257 18.295 -20.484 74.163 1.00 35.55 N ATOM 4464 CA ASP B 257 19.240 -19.535 73.568 1.00 36.08 C ATOM 4466 CB ASP B 257 19.051 -18.129 74.211 1.00 36.12 C ATOM 4469 CG ASP B 257 20.329 -17.281 74.251 1.00 36.27 C ATOM 4470 OD1 ASP B 257 20.545 -16.443 73.345 1.00 35.49 O ATOM 4471 OD2 ASP B 257 20.634 -20.154 73.750 1.00 36.08 O ATOM 4472 C ASP B 257 20.634 -20.154 73.750 1.00 36.42 C ATOM 4473 O ASP B 257 20.634 -20.154 73.750 1.00 36.88 O ATOM 4474 N PRO B 258			С	GLY I	B 255	15.677	-20.662					2
ATOM 4452 N ALA B 256			0	GLY I	B 255	16.004			1.00	33.02		
ATOM 4454 CA ALA B 256 17.270 -21.843 75.961 1.00 34.52 C ATOM 4456 CB ALA B 256 17.765 -23.266 76.194 1.00 34.47 C ATOM 4460 C ALA B 256 18.410 -20.942 75.423 1.00 35.19 C ATOM 4461 O ALA B 256 19.374 -20.677 76.153 1.00 35.52 O ATOM 4462 N ASP B 257 18.295 -20.484 74.163 1.00 35.55 N ATOM 4464 CA ASP B 257 19.240 -19.535 73.568 1.00 36.08 C ATOM 4466 CB ASP B 257 19.051 -18.129 74.211 1.00 36.12 C ATOM 4469 CG ASP B 257 20.329 -17.281 74.251 1.00 36.27 C ATOM 4470 OD1 ASP B 257 20.545 -16.443 73.345 1.00 35.49 O ATOM 4471 OD2 ASP B 257 21.155 -17.350 75.190 1.00 36.08 O ATOM 4473 O ASP B 257 20.634 -20.154 73.750 1.00 36.42 C ATOM 4473 O ASP B 257 21.530 -19.540 74.339 1.00 36.88 O ATOM 4474 N PRO B 258						16.126	-21.821					
ATOM 4456 CB ALA B 256 17.765 -23.266 76.194 1.00 34.47 C ATOM 4460 C ALA B 256 18.410 -20.942 75.423 1.00 35.19 C ATOM 4461 O ALA B 256 19.374 -20.677 76.153 1.00 35.52 O ATOM 4462 N ASP B 257 18.295 -20.484 74.163 1.00 35.55 N ATOM 4464 CA ASP B 257 19.240 -19.535 73.568 1.00 36.08 C ATOM 4466 CB ASP B 257 19.051 -18.129 74.211 1.00 36.12 C ATOM 4469 CG ASP B 257 20.329 -17.281 74.251 1.00 36.27 C ATOM 4470 OD1 ASP B 257 20.545 -16.443 73.345 1.00 35.49 O ATOM 4471 OD2 ASP B 257 21.155 -17.350 75.190 1.00 36.08 O ATOM 4473 O ASP B 257 20.634 -20.154 73.750 1.00 36.42 C ATOM 4473 O ASP B 257 21.530 -19.540 74.339 1.00 36.88 O ATOM 4474 N PRO B 258						17.270	-21.843					
ATOM 4461 O ALA B 256 19.374 -20.677 76.153 1.00 35.19 C ATOM 4462 N ASP B 257 18.295 -20.484 74.163 1.00 35.55 N ATOM 4464 CA ASP B 257 19.240 -19.535 73.568 1.00 36.08 C ATOM 4466 CB ASP B 257 19.051 -18.129 74.211 1.00 36.12 C ATOM 4469 CG ASP B 257 20.329 -17.281 74.251 1.00 36.27 C ATOM 4470 OD1 ASP B 257 20.545 -16.443 73.345 1.00 35.49 O ATOM 4471 OD2 ASP B 257 21.155 -17.350 75.190 1.00 36.08 O ATOM 4473 O ASP B 257 20.634 -20.154 73.750 1.00 36.42 C ATOM 4473 O ASP B 257 21.530 -19.540 74.339 1.00 36.88 O ATOM 4474 N PRO B 258				ALA I	3 256				1.00	34.47		
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ATOM 4466 CB ASP B 257 19.240 -19.535 73.568 1.00 36.08 C ATOM 4469 CG ASP B 257 20.329 -17.281 74.211 1.00 36.12 C ATOM 4470 OD1 ASP B 257 20.545 -16.443 73.345 1.00 35.49 O ATOM 4471 OD2 ASP B 257 21.155 -17.350 75.190 1.00 36.08 O ATOM 4473 O ASP B 257 20.634 -20.154 73.750 1.00 36.42 C ATOM 4474 N PRO B 259 20.816 23.237 74.339 1.00 36.88				ASP 1	25/							N
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ATOM 4471 OD2 ASP B 257 21.155 -17.350 75.190 1.00 36.08 O ATOM 4472 C ASP B 257 20.634 -20.154 73.750 1.00 36.42 C ATOM 4473 O ASP B 257 21.530 -19.540 74.339 1.00 36.88 O ATOM 4474 N PRO B 258 20.816 -23.3307 73.345 1.00 35.49				ASP I	2 2 2 7							
ATOM 4472 C ASP B 257 20.634 -20.154 73.750 1.00 36.08 O ATOM 4473 O ASP B 257 21.530 -19.540 74.339 1.00 36.88 O ATOM 4474 N PRO B 258 20.816 -23.3307 74.339 1.00 36.88			OD2	ASP	3 257	20.343	-10.443 -17 250					
ATOM 4473 O ASP B 257 21.530 -19.540 74.339 1.00 36.42 C ATOM 4474 N PRO B 258 20.816 -23.207 74.339 1.00 36.88 O						20.634	-20 15 <i>4</i>					
ATOM 4474 N PRO B 259 20 816 231 207 72 339 1.00 30.88		4473	_	ASP I	3 257	21.530	-19.540					
	MOTA		N	PRO E	3 258	20.816	-21.387					
									1.00	-0.40		· N

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ATOM	4475	CA	PRO B	258	21.956	-22.221	73.671	1.00 36.39	С
ATOM	4477		PRO B			-23.661	73.344	1.00 36.32	č
ATOM	4480		PRO B			-23.524	72.607	1.00 36.44	c
ATOM	4483		PRO B			-22.072	72.228	1.00 36.58	č
ATOM	4486		PRO B			-21.888	72.959	1.00 36.22	C
ATOM	4487		PRO B			-22.713	72.995	1.00 36.30	Ö
ATOM	4488		GLN B			-20.699	72.348	1.00 35.30	И
ATOM	4490		GLN B			-20.251	71.572	1.00 35.69	C
MOTA	4492		GLN B			-19.958	72.490	1.00 35.83	c
ATOM	4495		GLN B			-18.774	73.430	1.00 36.12	· C
ATOM	4498	CD	GLN B			-19.144	74.896	1.00 35.62	c
ATOM	4499		GLN B			-20.297	75.275	1.00 35.62	0
ATOM	4500		GLN B			-18.162	75.729	1.00 35.82	N
ATOM	4503	C	GLN B			-21.283	70.497	1.00 33.80	C
ATOM	4504	Ö	GLN B			-21.750	70.364	1.00 34.89	0
ATOM	4505	N	SER B			-21.640	69.762	1.00 33.10	N
ATOM	4507	CA	SER B			-22.620	68.699	1.00 33.32	C
ATOM	4509	CB	SER B			-23.628	68.833	1.00 32.40	c
ATOM	4512	OG	SER B			-22.968	68.777	1.00 32.50	0
ATOM	4514	C	SER B			-21.883	67.374	1.00 32.30	c
ATOM	4515	ŏ	SER B			-20.759	67.309	1.00 31.34	o
ATOM	4516	N	ALA B			-22.540	66.329	1.00 30.03	N
ATOM	4518	CA	ALA B			-22.016	64.972	1.00 29.32	C
ATOM	4520	СВ	ALA B			-22.920	64.061	1.00 29.26	c
ATOM	4524	C	ALA B			-21.897	64.443	1.00 28.44	č
ATOM	4525	Ö	ALA B			-21.018	63.645	1.00 28.46	ŏ
ATOM	4526	N	ASP B			-22.778	64.918	1.00 27.37	N
ATOM	4528	CA	ASP B			-22.883	64.411	1.00 26.27	Č
ATOM	4530	CB	ASP B			-24.175	64.952	1.00 26.40	č
ATOM	4533	CG	ASP B			-24.859	63.934	1.00 27.38	Č
ATOM	4534		ASP E			-24.150	63.085	1.00 29.79	ŏ
ATOM	4535		ASP E			-26.101	63.908	1.00 28.42	ŏ
ATOM	4536	C	ASP E			-21.674	64.791	1.00 24.73	č
ATOM	4537	0	ASP E			-21.145	63.969	1.00 24.75	ŏ
ATOM	4538	N	ALA E			-21.260	66.048	1.00 23.14	N
ATOM	4540	CA		3 263·	18.944	-20.202	66.599	1.00 22.15	Ċ
MOTA	4542	CB	ALA E	3 263		-20.275	68.119	1.00 22.02	Ċ
MOTA	4546	С	ALA E			-18.823	66.125	1.00 21.47	Ċ
ATOM	4547	0	ALA E	3 263	18.620	-17.889	66.022	1.00 21.01	0
MOTA	4548	N	ARG E	3 264	20.709	-18.702	65.845	1.00 20.63	N
MOTA	4550	CA	ARG E	3 264	21.258	-17.489	65.256	1.00 20.10	С
ATOM	4552	CB	ARG E			-17.604	65.155	1.00 20.12	С
MOTA	4555	CG	ARG E	3 264		-16.291	65.024	1.00 20.98	C
MOTA	4558	CD	ARG E			-16.375	64.286	1.00 23.02	С
MOTA	4561	NE	ARG F			-17.411	64.823	1.00 25.21	N
MOTA	4563	CZ	ARG E			-17.588	64.463	1.00 27.21	C
ATOM	4564		ARG I			-16.798	63.559	1.00 29.00	N
MOTA	4567		ARG I			-18.560	65.011	1.00 28.37	N
MOTA	4570	С	ARG I			-17.277	63.872	1.00 19.30	С
ATOM	4571	0	ARG I			-16.174	63.528	1.00 18.85	0
MOTA	4572	N		B 265		-18.347	63.088	1.00 18.93	N
MOTA	4574	CA		B 265		-18.292	61.753	1.00 18.74	C
MOTA	4576	CB		B 265		-19.639	61.019	1.00 18.95	C
MOTA	4579	CG		B 265		-19.732	59.638	1.00 20.26	C
MOTA	4582	CD		B 265		-18.661	58.646	1.00 22.64	C
ATOM	4583		GLN I			-18.702	58.167	1.00 25.12	0
MOTA	4584		GLN I			-17.709	58.329	1.00 22.08	Ŋ
ATOM	4587	C		B 265		-17.927	61.836	1.00 17.60	C
MOTA	4588	0		B 265		-17.266	60.955	1.00 16.14	0
ATOM	4589	N		B 266		-18.391	62.900	1.00 17.56	N
ATOM	4591	CA	GLN	В 266	16.400	-18.156	63.125	1.00 17.35	С
					*****			<del></del>	

· ATOM	4601	NE2	GLN B	266	14 943	-22.593	64.210	1 00 00 10
ATOM	4604	С	GLN B			-16.694	63.471	1.00 22.10
ATOM	4605	0	GLN B		15 277	-16.067	62.947	1.00 16.86
ATOM	4606	N.	ARG B			-16.129		1.00 16.83
ATOM	4608	CA	ARG B			-14.688	64.297	1.00 16.43
ATOM	4610	CB	ARG B			-14.000	64.582	1.00 16.37
ATOM	4613	CG	ARG B			-14.294	65.636	1.00 16.42
ATOM	4616	CD	ARG B					.1.00 17.67
ATOM	4619	NE				-14.433	68.007	1.00 19.76
ATOM	4621	CZ	ARG B			-15.140	69.269	1.00 23.24
ATOM	4622					-16.072	69.689	1.00 24.98
			ARG B		20.611	-16.436	68.947	1.00 25.98
ATOM	4625		ARG B		19.363	-16.658	70.864	1.00 24.91
ATOM	4628	C	ARG B			-13.830	63.324	1.00 15.95
ATOM	4629	0	ARG B			-12.891	63.066	1.00 14.76
ATOM	4630	N	PHE B			-14.169	62.554	1.00 15.75
ATOM	4632	CA	PHE B			-13.453	61.332	1.00 15.52
ATOM	4634	СВ	PHE B		19.848	-14.018	60.714	1.00 15.76
ATOM	4637	CG	PHE B			~13.377	59.413	1.00 18.35
ATOM	4638		PHE B		20.871	-12.145	59.387	1.00 20.04
ATOM	4640		PHE B		21.209	-11.558	58.182	1.00 19.94
ATOM .	4642	CZ	PHE B		20.886	-12.196	56.979	1.00 20.77
MOTA	4644	CE2	PHE B	268	20.242	-13.402	56.991	1.00 20.76
ATOM	4646		PHE B		19.904	-13.994	58.202	1.00 20.40
ATOM	4648	C	PHE B			-13.531	60.349	1.00 14.78
ATOM	4649	0	PHE B	268	17.014	-12.527	59.817	1.00 15.24
ATOM	4650	N	ALA B	269		-14.721	60.136	1.00 14.47
ATOM	4652	CA	ALA B	269		-14.913	59.251	1.00 13.87
ATOM	4654	CB	ALA B	269		-16.406	59.185	1.00 13.62
ATOM	4658	С	ALA B	269		-14.089	59.692	1.00 13.39
ATOM	4659	0	ALA B		13.875	-13.476	58.866	1.00 13.14
ATOM	4660	N	HIS B			-14.088	60.992	1.00 13.14
ATOM	4662	CA	HIS B			-13.280	61.567	1.00 13.45
ATOM	4664	CB	HIS B			-13.562	63.081	1.00 13.97
ATOM	4667	CG	HIS B			-12.560	63.854	1.00 14.07
ATOM	4668	ND1	HIS B			-12.842	64.354	1.00 15.14
ATOM	4670		HIS B			-11.792	65.010	1.00 17.36
ATOM	4672		HIS B		11,426	-10.842	64.962	1.00 15.22
ATOM	4674		HIS B			-11.302	64.262	1.00 14.66
ATOM	4676	C	HIS B			-11.766	61.258	1.00 14.06
ATOM	4677	0	HIS B			-11.036	60.865	1.00 14.16
ATOM	4678	N	PHE B			-11.312	61.398	
ATOM	4680	CA	PHE B		14.938	-9.950	61.014	1.00 14.37
ATOM	4682	CB	PHE B		16.350	-9.577	61.477	1.00 15.70
ATOM	4685	CG	PHE B		16.438	-9.153		1.00 15.92
ATOM	4686		PHE B		15.458	-8.373	62.936 63.527	1.00 17.25
ATOM	4688		PHE B		15.570	-7.977	64.852	1.00 18.99
ATOM	4690	CZ	PHE B		16.657			1.00 18.97
ATOM	4692		PHE B	271	17.632	-8.352 -9.115	65.600	1.00 18.58
ATOM	4694	CD2	PHE B	271	17.520		65.030	1.00 19.00
ATOM	4696	C	PHE B		14.783	-9.517	63.700	1.00 18.47
ATOM	4697	ŏ	PHE B			-9.695 -8.500	59.505	1.00 16.17
ATOM	4698	N	THR B		14.345	-8.598 -10.679	59.103	1.00 16.51
ATOM	4700	CA	THR B			-10.679	58.662	1.00 15.92
ATOM	4702	CB	THR B			-10.440	57.229	1.00 15.60
ATOM	4704		THR B	272		-11.557	56.360	1.00 15.19
ATOM	4704		THR B			-12.828	56.621	1.00 15.06
ATOM	4710	CGZ				-11.762	56.702	1.00 14.81
ATOM	4711		THR B			-10.231	56.881	1.00 16.01
ATOM	4712	0	THR B		13.219	-9.511	55.943	1.00 16.04
	4/12	N	GLU B		12.607	-10.837	57.645	1.00 16.31
	1711	(T)	OT IT -	~ ~ ~		4		
ATOM	4714	CA	GLU B			-10.707	57.389	1.00 16.91
ATOM ATOM	4714 4716	CA CB	GLU B			-10.707 -11.783	57.389 58.155	

ATOM ATOM ATOM ATOM ATOM	4719 4722 4723 4724 4725	CD OE1 OE2	GLU I GLU I	B 273 B 273 B 273 B 273	9.899 10.308 8.823	-13.200 -14.259 -15.457 -13.892	57.716 58.396 58.416 58.916	1.00 19.28 1.00 22.41 1.00 22.79 1.00 25.21	C C O O
ATOM	4726	0		B 273 B 273	10.635 9.854	-9.325 -8.736	57.752 57.001	1:00 17.10	. C
ATOM	4727			B 274	11.059	-8.789	58.901	1.00 17.36 1.00 17.58	O N
MOTA	4729			B 274	10.823	-7.373	59.181	1.00 17.80	C
MOTA	4731	CB		B 274	11.429	-6.921	60.502	1.00 17.99	C
MOTA	4734	CG		B 274	10.954	-7.596	61.795	1.00 19.69	č
MOTA	4736			B 274	11.232	-6.739	63.002	1.00 18.59	C C
MOTA	4740			B 274	9.485	-8.001	61.738	1.00 21.65	C
ATOM	4744	C		B 274	11.330	-6.488	58.052	1.00 17.31	С
MOTA	4745	0		B 274	10.626	-5.603	57.639	1.00 17.76	0
MOTA MOTA	4746 4748	N CA		B 275 B 275	12.524	-6.743	57.539	1.00 17.48	N
ATOM	4750	CB		B 275	13.124 14.604	-5.906 -6.314	56.467 56.187	1.00 17.61 1.00 17.30	C
ATOM	4754	C		B 275	12.318	-6.012	55.193	1.00 17.19	C
ATOM	4755	0		В 275	12.125	-5.025	54.507	1.00 16.75	. 0
MOTA	4756	N		B 276	11.826	-7.213	54.911	1.00 17.43	Ň
MOTA	4758	CA		B 276	11.006	-7.449	53.737	1.00 17.71	С
MOTA	4760	CB		B 276	10.719	-8.928	53.574	1.00 17.62	С
MOTA	4762	CG1		B 276	11.942	-9.601	52.945	1.00 18.32	C
ATOM ATOM	4765	CD1		B 276 B 276		-11.116	52.939	1.00 18.55	C
ATOM	4769 4773	CGZ		B 276	9.473 9.721	-9.168 -6.663	52.682 53.873	1.00 16.70	C
ATOM	4774	Õ		B 276	9.284	-6.018	52.911	1.00 18.56 1.00 19.96	C O
ATOM	4775	Ŋ		B 277	9.119	-6.696	55.058	1.00 13.30	N
MOTA	4777	CA		B 277	7.925	-5.909	55.283	1.00 18.33	Č
MOTA	4779	CB		B 277	7.373	-6.111	56.683	1.00 18.46	č
ATOM	4781	CG1		B 277	6.690	-7.475	56.763	1.00 19.14	C
MOTA	4784			B 277		-7.874	58.165	1.00 20.33	С
ATOM	4788	CG2		B 277	6.358	-5.040	57.058	1.00 17.80	C
ATOM ATOM	4792 4793	C		B 277	8.207	-4.447	55.013	1.00 18.33	C
ATOM	4794	O N		B 277 B 278	7.402 9.332	-3.795 -3.920	54.374 55.494	1.00 18.06 1.00 18.03	0
MOTA	4796	CA		B 278	9.593	-2.492	55.342	1.00 18.03	N C
ATOM	4798	CB		B 278	10.753	-2.052	56.225	1.00 18.70	c
MOTA	4801	QG		B 278	10.934	-0.637	56.159	1.00 18.72	Õ
MOTA	4803	С		B 278	9.911	-2.168	53.879	1.00 18.90	С
ATOM	4804	0		B 278	9.466	-1.177	53.357	1.00 19.41	0
ATOM	4805	N		В 279	10.680	-3.012	53.206	1.00 19.42	N
ATOM ATOM	4807 4809	CA CB		B 279 B 279	11.012	-2.720	51.823	1.00 19.96	C
ATOM	4811			B 279	12.030 12.083	-3.732 -3.671	51.247 49.709	1.00 19.75	C
ATOM	4815			B 279	13.388	-3.489	51.874	1.00 17.20 1.00 18.66	C
ATOM	4819	C		B 279	9.728	-2.646	50.988	1.00 20.32	C
MOTA	4820	0		B 279	9.595	-1.771	50.172	1.00 20.05	ŏ
MOTA	4821	N	GLN	B 280	8.789	-3.558	51.201	1.00 21.26	N
ATOM	4823	CA		B 280	7.540	-3.519	50.447	1.00 21.95	C
ATOM	4825	CB		B 280	6.728	-4.769	50.683	1.00 22.34	С
MOTA	4828	CG		B 280	7.296	-5.958	49.972	1.00 25.42	C
ATOM ATOM	4831 4832	CD OF 1		B 280 B 280	6.595 5.971	-7.256 -7.300	50.299 51.352	1.00 28.38	C
ATOM	4833			B 280	6.699	-7.390 -8.227	49.387	1.00 29.60 1.00 29.80	O N
ATOM	4836	C		B 280	6.717	-2.270	50.765	1.00 29.80	C
ATOM	4837	ŏ		B 280	6.164	-1.671	49.849	1.00 22.03	Ö
ATOM	4838	N		B 281	6.651	-1.856	52.034	1.00 21.59	N
ATOM	4840	CA	GLU	B 281	5.911	-0.637	52.394	1.00 21.72	С
ATOM	4842	CB		B 281	5.853	-0.428	53.910	1.00 21.87	С
ATOM	4845	CG	GLU	B 281	5.049	-1.473	54.655	1.00 22.25	С

ATOM	4848	CD	GLU 1	B 281	5.202	-1.371	56.171	1 00 00		
ATOM	4849	OE1	GLU 1	B 281	5.975	-0.509		1.00 21.71		С
ATOM	.4850	OE2	GLU I	B 281	4.529	-2.164	56.865	1.00 17.81		0
ATOM	4851	C		B 281	6.531	0.603		1.00 19.03		. 0
MOTA	4852	0		B 281	5.816	1.473	51.745	1.00 21.36		, <b>C</b> ,
MOTA	4853	N		B 282	7.860	0.669	51.300	1.00 20.72		. 0
ATOM	4855	CA	ILE I	B 282	8.579	1.799	51.696	1.00 21.78		N
ATOM	4857	СВ	TLE	B 282	10.080			1.00 22.00		С
ATOM	4859		ILE E	3 282	10.371	1.695	51.321	1.00 21.32		С
ATOM		· CD1	ILE E	3 282	11.700	2.117	52.750	1.00 21.12		C
ATOM	4866	CG2	ILE E	3 282	10.872	1.678	53.247	1.00 22.57		С
ATOM	4870	C	ILE F	3 282	8.268	2.584	50.387	1.00 21.98		С
ATOM	4871	Õ	TLE F	3 282	8.086	1.956	49.556	1.00 22.01		,. C
ATOM	4872	N	VAL E	3 283	8.220	3.063	49.090	1.00 21.16		O
ATOM	4874	CA	VAL E	3 283	7.785	0.843 0.790	48.829	1.00 22.96		· N
ATOM	4876	CB	VAL E	3 283	7.700	-0.694	47.429	1.00 23.47		С
ATOM ·	4878		VAL E	3 283	6.896	-0.801	46.911	1.00 24.31		С
MOTA	4882	CG2	VAL E	3 283	9.083	-1.331	45.603	1.00 23.97	•	, C
ATOM	4886	С	VAL E	3 283	6.390		46.734	1.00 24.06		С.
ATOM	4887	Ō	VAL E	3 283	6.188	1.409 2.338	47.316	1.00 23.71		Ċ
ATOM	4888	N	ASP E	3 284	5.429	0.919	46.552	1.00 24.05		. 0
MOTA	4890	CA	ASP E	3 284	4.066	1.492	48.096	1.00 23.71		N
ATOM	4892	СВ	ASP E	3 284	3.112	0.675	48.091	1.00 23.80	•	C
ATOM	4895	CG	ASP E	3 284	2.905	-0.718	48.960 48.428	1.00 24.45		C
ATOM	4896		ASP E	3 284	2.521	-1.580		1.00 26.79		C
ATOM	4897	OD2	ASP E	3 284	3.115	-1.036	49.242 47.237	1.00 32.73	•	0
ATOM	4898	С	ASP E	3 284	3.993	2.935	47.237	1.00 26.84		0
ATOM	4899	0	ASP B	3 284	3.293	3.733	47.975	1.00 22.85		С
ATOM	4900	N	PHE B		4.699	3.276	49.611	1.00 23.18		0
ATOM	4902	CA	PHE B	285	4.708	4.665	50.043	1.00 21.83		N
MOTA	4904	CB	PHE B	285	5.583	4.818	51.275	1.00 21.89 1.00 21.24		C
MOTA	4907	CG	PHE B	285	5.789	6.228	51.707	1.00 21.24		C
ATOM	4908	CD1	PHE B	285	4.854	6.870	52.493	1.00 20.61		C
MOTA	4910		PHE B	285	5.056	8.153	52.915	1.00 20.19		C
ATOM	4912	CZ	PHE B	285	6.207	8.810	52.548	1.00 19.67		C
ATOM	4914	CE2	PHE B	285	7.155	8.168	51.776	1.00 18.93		C
ATOM	4916	CD2	PHE B	285	6.949	6.894	51.379	1.00 20.46		C
ATOM	4918	С	PHE B		5.181	5.603		1.00 21.93		C .
ATOM	4919	0	PHE B		4.623	6.663	48.736	1.00 21.82		C 0
ATOM	4920	N	ALA B	286	6.185	5.202	48.163	1.00 22.60	•	N
ATOM	4922	CA	ALA B		6.797	6.117	47.195	1.00 23.49		C
ATOM	4924	СВ	ALA B	286	8.104	5.573	46.675	1.00 23.96		C
ATOM	4928	C	ALA B	286	5.844	6.475	46.050	1.00 23.30		Ċ
ATOM ATOM	4929	0	ALA B	286	5.882	7.594	45.549	1.00 21.88		0 .
	4930	N	LYS B		4.969	5.547	45.682	1.00 24.38		N
ATOM ATOM	4932	CA	LYS B		3.907	5.836	44.705	1.00 25.52		ĉ
ATOM	4934 4937	CB	LYS B	287	3.044	4.604	44.349	1.00 26.06		č
ATOM	4940	CG	LYS B	287	3.732	3.240	44.182	1.00 28.53		č
ATOM	4943	CD	LYS B		4.511	3.082	42.883	1.00 31.79		Ċ
ATOM	4946	CE NZ	LYS B	287	4.644	1.579	42.414	1.00 32.44		Ċ
ATOM	4950	C	LYS B		3.774	0.604	43.161	1.00 31.88		· N
ATOM	4951	0	LYS B		2.934	6.917	45.179	1.00 25.60		Ċ
	4952	N	LYS B	287	2.231	7.510	44.362	1.00 25.69		Ö
ATOM	4954	CA	GLN B	∠88 290	2.845	7.102	46.499	1.00 25.59		И
ATOM	4956	CB	GLN B	400 200	1.929	8.052	47.129	1.00 25.14		ĉ
ATOM	4959	CG	GLN B	200	1.466	7.533	48.507	1.00 24.91		Ċ
ATOM	4962	CD	GLN B		0.625	6.276	48.456	1.00 25.08		Ċ
ATOM	4963		GLN B	400 200	-0.648	6.436	47.620	1.00 27.43		Ċ
ATOM	4964	NE 2	GLN B	200 200	-1.299	7.491	47.660	1.00 29.70		ō
ATOM	4967	C	GLN B	200	-0.981	5.418	46.833	1.00 24.98.		N
		_	OLU D	200	2.576	9.409	47.326	1.00 24.85		C

ATOM	4968	0	GLN 1	B :	288	1.890	10.361	47.686	1.00 25.19	0
ATOM	4969	N	VAL		289					
						3.893	9.489	47.135	1.00 24.19	N
ATOM	4971	CA	VAL 1			4.621	10.739	47.252	1.00 23.51	С
ATOM	4973	CB	VAL I	в :	289	6.150	10.518	47.404	1.00 23.87	C
ATOM	4975	CG1	VAL :	R :	289	6.874	11.843	47.503	1.00 24.01	Č
ATOM	4979									
			VAL :			6.457	9.714	48.670	1.00 23.94	С
MOTA	4983	С	VAL :			4.368	11.570	46.014	1.00 23.42	C
ATOM	4984	0	VAL :	В :	289	4.770	11.169	44.914	1.00 23.53	0
ATOM	4985	N	PRO	B :	290	3.707	12.725	46.161	1.00 22.39	N
ATOM	4986	CA	PRO			3.448	13.592	45.005	1.00 21.62	
										C
ATOM	4988	CB	PRO			2.856	14.866	45.649	1.00 22.00	C
ATOM	4991	CG	PRO			2.174	14.361	46.864	1.00 21.47	С
ATOM	4994	CD	PRO	В	290	3.116	13.283	47.391	1.00 22.05	C
ATOM	4997	С	PRO			4.688	13.901	44.168	1.00 20.84	č
ATOM	4998	· 0.	PRO			5.726	14.371	44.658		
									1.00 21.04	0
ATOM	4999	N	GLY			4.569	13.619	42.879	1.00 19.91	N
ATOM	5001	CA	GLY			5.663	13.767	41.951	1.00 18.79	С
ATOM	5004	С	GLY	В	291	6.398	12.474	41.612	1.00 18.26	С
ATOM	5005	0	GLY			7.054	12.382	40.585	1.00 18.74	Ō
ATOM	5006	N	PHE			6.351	11.464			
									1.00 17.97	N
MOTA	5008	CA	PHE			7.223	10.316	42.204	1.00 17.81	C.
MOTA	5010	CB	PHE	В	292	7.147	9.314	43.346	1.00 17.81	С
MOTA	5013	CG	PHE	В	292	8.097	8.164	43.218	1.00 15.70	C
MOTA	5014	CD1	PHE	В	292	9.436	8.339	43.477	1.00 14.75	Č
ATOM	5016		PHE			10.322	7.306	43.370		Č
									1.00 12.99	C
ATOM	5018	CZ	PHE			9.868	6.065	43.025	1.00 15.22	C
ATOM	5020		PHE			8.518	5.855	42.754	1.00 14.12	С
ATOM	5022	CD2	PHE	В	292	7.641	6.910	42.864	1.00 14.10	C
ATOM	5024	С	PHE	В	292	6.834	9.652	40.900	1.00 18.05	С
ATOM	5025	Ö	PHE			7.695	9.244	40.133	1.00 17.83	ő
ATOM	5026									
		N	LEU			5.527	9.585	40.640	1.00 19.39	N
ATOM	5028	CA	LEU			5.001	8.887	39.456	1.00 19.72	C
ATOM	5030	CB	LEU	В	293	3.526	8.460	39.652	1.00 19.64	C
MOTA	5033	CG	LEU	В	293	3.268	7.255	40.598	1.00 19.21	С
ATOM	5035		LEU			1.807	6.829	40.550	1.00 16.19	č
ATOM	5039		LEU			4.197				Č
							6.054	40.297	1.00 17.72	C
ATOM	5043	С	LEU			5.207	9.630	38.130	1.00 19.37	С
MOTA	5044	0	LEU			5.014	9.058	37.080	1.00 19.61	0
MOTA	5045	N	GLN	В	294	5.622	10.884	38.193	1.00 20.20	N
ATOM	5047	CA	GLN	В	294	5.975	11.664	37.008	1.00 21.50	C
ATOM	5049	CB	GLN			5.966	13.183	37.332	1.00 22.59	č
ATOM	5052	CG	GLN			4.564				
							13.821	37.595	1.00 27.10	C
ATOM	5055	CD	GLN			4.654	15.198	38.308	1.00 33.39	C
ATOM	5056		GLN			5.554	16.012	38.022	1.00 38.40	0
MOTA	5057	NE2	GLN	В	294	3.721	15.449	39.237	1.00 37.44	Ŋ
ATOM	5060	С	GLN	В	294	7.368	11.312	36.468	1.00 21.10	С
ATOM	5061	0	GLN			7.672	11.635	35.314	1.00 21.09	ō
ATOM	5062	Ŋ	LEU							
						8.238	10.703	37.289	1.00 19.82	N
MOTA	5064	CA	LEU			9.543	10.261	36.788	1.00 19.71	C
MOTA	5066	CB	LEU	В	295	10.538	9.970	37.924	1.00 20.43	C
MOTA	5069	CG	LEU	В	295	10.846	11.084	38.906	1.00 21.71	С
MOTA	5071		LEU			11.603	10.523	40.085	1.00 23.72	Č
ATOM	5075		LEU			11.615	12.198	38.214	1.00 23.72	Č
										C
ATOM	5079	C	LEU			9.337	9.012	35.972	1.00 18.12	C
MOTA	5080	0	LEU			8.359	8.281	36.192	1.00 18.00	0
MOTA	5081	N	GLY	В	296	10.224	8.785	35.011	1.00 17.34	N
ATOM	5083	CA	GLY			10.260	7.531	34.259	1.00 17.08	Ċ
ATOM	5086	C	GLY			10.459	6.338	35.181	1.00 16.81	č
ATOM	5087									
		0	GLY			10.996	6.491	36.251	1.00 16.26	0
ATOM	5088	N	ARG			9.991	5.157	34.797	1.00 17.84	N
ATOM	5090	CA	ARG	В	297	10.085	3.999	35.679	1.00 18.97	С
						<del></del>				

ATOM	EAAA	0.0	35		_					
	5092	CB	ARG E	3 297	9.340	2.765	35.152	1.00 19.44		~
ATOM	5095	CG	ARG F	3 297	9.369	1.623	36.191	1.00 13.44		С
ATOM	5098	CD	ARG I					1.00 25.58		С
					8.029	0.943	36.521	1.00 33.49		. C
ATOM	5101	NE	ARG I	3 297	8.213	-0.388	37.146	1.00 38.59		
ATOM	5103	CZ	ARG E	2 297	8.667			1.00 36.39		N
ATOM						-1.484	36.503	1.00 40.41		. C
	5104		ARG I		8.988	-1.443	35.217	1.00 40.97		
ATOM	5107	NH2	ARG E	3 297	8.799	-2.639	37.158			N
ATOM ·		С	ARG E		11.799			1.00 41.67		N
					11.533	3.615	36.020	1.00 17.76		Ċ
ATOM	5111	0	ARG F	3 297	11.780	3.095	37.094	1.00 16.79		
ATOM	5112	N	GLU E					1.00 16.79		0
•					12.470	3.863	35.117	1.00 17.36		N
MOTA	5114	CA	GLU E		13.872	3.510	35.382	1.00 17.32		
ATOM	5116	CB	GLU E	3 298	14.722					С
ATOM	5119					3.476	34.100	1.00 17.52		С
		CG	GLU E		14.462	2.202	33.275	1.00 18.16		С
ATOM	5122	CD	GLU E	3 298	15.096	2.207	31.886	1.00 21.18		_
ATOM	5123	OE1								С
			GHO I	230	15.119	3.301	31.259	1.00 22.69		0
ATOM	5124	OE2	GLU E	3 298	15.581	1.121	31.428	1.00 18.63		
ATOM	5125	С	GLU E	3 298	14.476	4.392	36.465			(
ATOM	5126	0	GLU E					1.00 17.16		С
					15.283	3.896	37.245	1.00 17.40	. •	0
ATOM	5127	N	ASP E	3 299	14.053	5.653	36.563	1.00 16.22		
MOTA	5129	CA	ASP F	299	14.505	6.534				N
ATOM	5131						37.640	1.00 16.84		С
		CB	ASP E		14.263	7.996	37.279	1.00 17.23		С
ATOM	5134	CG	ASP E	3 299	15.325	8.571	36.351	1.00 19.38	•	_
ATOM	5135		ASP E							С
					16.320	7.892	36.011	1.00 18.73		0
ATOM	5136	002	ASP E		15.225	9.726	35.892	1.00 23.85		Č
ATOM	5137	С	ASP E	3 299	13.812	6.266		1.00 25.05		0
ATOM	5138						39.012	1.00 16.95		С
		0	ASP E		14.425	6.447	40.047	1.00 15.53		0
ATOM	5139	N	GLN E	3 300	12.533	5.891	39.000	1.00 16.90		
ATOM	5141	CA	GLN E					1.00 10.90		N
ATOM					11.806	5.454	40.191	1.00 16.81		C
	5143	CB	GLN E		10.405	4.978	39.804	1.00 16.86		C
ATOM	5146	CG	GLN E	3 300	9.455	6.063	39.266			<u> </u>
ATOM	5149	CD	GLN E					1.00 17.75		C
					8.125	5.493	38.770	1.00 16.43		С
ATOM .	.5150	OE1		3 300	7.711	4.452	39.234	1.00 16.78		
MOTA	5151	NE2	GLN E	300	7.472					0
ATOM	5154					6.175	37.817	1.00 13.03		N
		C	GLN B		12.556	4.277	40.822	1.00 17.48		С
ATOM	5155	0	GLN B	300	12.809	4.251	42.021			
ATOM	5156	N ·	ILE B					1.00 16.85		0
					12.898	3.303	39.988	1.00 17.63		N
MOTA	5158	CA	ILE B	301	13.665	-2.145	40.401	1.00 18.03		~
ATOM	5160	CB	ILE B	301	13.857	1.175	39.199			С
MOTA	5162							1.00 18.58		С
			ILE B		12.519	0.475	38.861	1.00 19.45		С
ATOM	5165	CDI	ILE B	301	12.484	-0.080	37.456	1.00 19.64		~
ATOM	5169	CG2			14.899					C
ATOM	5173					0.096	39.512	1.00 18.33		С
		С	ILE B		15.017	2.579	41.002	1.00 17.95		C
ATOM	5174	0	ILE B	301	15.361	2.151	42.109	1.00 17.99		
ATOM	5175	N	ALA B							0
ATOM					15.740	3.461	40.304	1.00 16.92		N
	5177	CA	ALA B	302	17.058	3.902	40.742	1.00 16.34		C
ATOM	5179	CB	ALA B	302	17.698	4.738	39.702			
MOTA	5183	С	ALA B	302				1.00 16.84		С
					17.019	4.654	42.052	1.00 16.05		C
ATOM	5184	0	ALA B	302	17.828	4.414	42.935	1.00 15.80		
ATOM	5185	N	LEU B	303	16.068	5.556	42.183			0
ATOM	5187	CA						1.00 17.14		N
			LEU B	303	15.849	6.288	43.418	1.00 17.79	•	C
ATOM	5189	CB	LEU B	303	14.791	7.385	43.231	1.00 18.09	•	. ~
ATOM	5192	CG	LEU B	303	15.221	0 531			•	. C
ATOM	5194			202		8.531	42.308	1.00 17.67		С
		CDT	LEU B	303	14.092	9.512	42.250	1.00 19.09		Č
ATOM	5198	CD2	LEU B	303	16.499	9.237	42.738			<u> </u>
ATOM	5202	С	LEU B	303				1.00 17.93		С
			THU D	202	15.481	5.397	44.603	1.00 17.88		С
ATOM	5203	0	LEU B	303	16.018	5.576	45.694	1.00 18.09		
ATOM	5204	N	LEU B	304	14.599	4.435			•	0
ATOM	5206	CA	LEU B	304	14 000		44.384	1.00 18.34		N
					14.225	3.462	45.424	1.00 19.12		С
MOTA	5208	CB	LEU B	304	13.000	2.648	45.029	1.00 19.11		
ATOM	5211	CG	LEU B	304	11.682	3.361				· C
MOTA	5213		T.EU.	204			45.284	1.00 22.25	•	C
	2213	CDI	LEU B	<b>3</b> 04	10.525	2.646	44.598	1.00 23.77		С
										~

ATOM	5217	CD2	LEU E	3 304	11.401	3.446	46.774	1.00 24.94	С
ATOM	5221		LEU E		15.362	2.504	45.797	1.00 19.16	С
MOTA	5222		LEU E		15.543	2.207	46.962	1.00 18.26	0
ATOM	5223		LYS E		16.118	2.041	44.817	1.00 19.66	N
MOTA	5225		LYS E		17.276	1.184	45.087	1.00 20.90	C
ATOM	5227		LYS E		18.086 18.188	0.982 -0.474	43.803 43.290	1.00 21.43 1.00 25.43	C
MOTA MOTA	5230 5233		LYS E		19.671	-0.474		1.00 25.45	c
ATOM	5236		LYS E		19.872	-2.081	42.196	1.00 33.34	č
ATOM	5239		LYS E		20.738	-3.092	42.899	1.00 35.01	, N
ATOM	5243	C	LYS I		18.194	1.820	46.132	1.00 21.19	Ċ
ATOM	5244	Ō	LYS I		18.538	1.202	47.129	1.00 20.18	0
ATOM	5245	N	ALA I	B 306	18.575		45.885	1.00 21.68	N
ATOM	5247	CA		B 306	19.510	3.801	46.737	1.00 21.68	C
MOTA	5249	CB		B 306	20.118	5.014	45.965	1.00 21.77	C_
ATOM	5253	C		B 306	18.909	4.265	48.054	1.00 21.59	· C
MOTA	5254	0.		B 306	19.554	4.149 4.763	49.054 48.059	1.00 22.32 1.00 21.99	N O
ATOM ATOM	5255 5257	N CA		B 307	17.673 17.102	5.400	49.238	1.00 21.99	C
ATOM	5257	CB		B 307	16.153		48.826	1.00 22.52	Č
MOTA	5262	OG		B 307	14.966	6.025	48.261	1.00 27.06	ŏ
ATOM	5264	c		B 307	16.392	4.463	50.237	1.00 21.68	; Č
ATOM	5265	0		B 307	16.207	4.829	51.383	1.00 21.09	0
MOTA	5266	N		B 308	16.068	3.242	49.820	1.00 21.12	N
MOTA	5268	CA		в 308	15.358	2.303	50.663	1.00 20.17	С
MOTA	5270	CB		в 308	15.120	1.004	49.866	1.00 20.22	C
ATOM	5272			B 308	14.067	1.229	48.910	1.00 21.08	0
ATOM	5274			B 308	14.597 16.055	-0.110 2.063	50.733 52.013	1.00 20.01 1.00 19.87	C
ATOM ATOM	5278 5279	C O		B 308 B 308	15.457	2.063	53.050	1.00 19.87	0
ATOM	5280	N		B 309	17.322	1.681	51.998	1.00 20.00	N
ATOM	5282	CA		B 309	18.078	1.457	53.226	1.00 20.44	Ċ
ATOM	5284	CB		в 309	19.514	0.916	52.937	1.00 20.43	C
ATOM	5286			в 309	20.193	0.428	54.226	1.00 21.85	С
MOTA	5289			B 309	19.587	-0.887	54.827	1.00 23.34	C
MOTA	5293			B 309	20.393	1.956	52.279	1.00 19.30	C C
MOTA	5297	C		B 309 B 309	18.118 18.043	2.715 2.638	54.081 55.300	1.00 20.93 1.00 21.58	0
ATOM ATOM	5298 5299	N O		B 310	18.183		53.450	1.00 21.30	N
ATOM	5301	CA		B 310	18.233		54.194	1.00 20.55	Ċ
ATOM	5303	CB		B 310	18.665		53.278	1.00 21.11	Č
ATOM	5306	CG		B 310	20.079		52.736	1.00 21.63	С
ATOM	5309	CD		B 310	20.596		51.871	1.00 21.01	С
MOTA	5310			B 310	20.027		51.917	1.00 22.94	0
MOTA	5311			B 310	21.586		51.151		0
ATOM	5312	C		B 310 B 310	16.912		54.846 55.933	1.00 19.84 1.00 18.83	C O
MOTA MOTA	5313 5314	И О		B 311	16.861 15.828		54.181	1.00 10.83	N
ATOM	5314	CA		B 311	14.501		54.734	1.00 19.99	Č
ATOM	5318	CB		B 311	13.466		53.614	1.00 20.39	Ċ
ATOM	5320			в 311	13.622		52.637	1.00 20.26	С
MOTA	5323	CD1	ILE	B 311	12.700		51.452	1.00 20.97	C
ATOM	5327			B 311	12.013		54.200	1.00 20.99	C
MOTA	5331	C		B 311	14.230		55.916	1.00 19.83	C
MOTA	5332	0		B 311	13.590		56.920	1.00 18.39	O N
MOTA	5333	N		B 312	14.774		55.796 56.854		И
ATOM ATOM	5335 5337	CA CB		B 312	14.665 15.236		56.399		C
ATOM	5340	CG		B 312	14.301		55.431		Č
ATOM	5343	SD		B 312	15.032		54.654		S
ATOM	5344	CE		B 312	15.212				С

ATOM	5474	Ö		B 319	12.341	3.326 2.396	67.931 68.673	1.00 19.98 1.00 18.70
ATOM	5473	NH2 C	ARG	B 319 B 319	6.883 12.341	2.677	61.934	1.00 23.04
ATOM	5467 5470		ARG		8.996	3.540	62.053	1.00 21.00
ATOM ATOM	5466	CZ	ARG		8.091	2.668	62.463	1.00 22.31
ATOM	5464	NE	ARG		8.375	1.782	63.392	1.00 23.64
MOTA	5461	CD	ARG		9.662	1.671	64.069	1.00 22.23
MOTA	5458	CG		B 319	9.761	2.674	65.155	1.00 20.16
ATOM	5455	CB	ARG	в 319	11.023	2.513	65.990	1.00 20.14
MOTA	5453	CA	ARG		11.359	3.735	66.838	1.00 19.63
ATOM	5451	N		B 319	11.884	4.769	65.972	1.00 19.51
MOTA	5450.	Ō		B 318	10.512	6.419	66.646	1.00 19.52
ATOM	5449	C		B 318	11.431	6.027	65.951	1.00 23.62
ATOM	5446			B 318	6.114	9.702	60.475 61.930	1.00 23.85 1.00 23.62
ATOM	5443			B 318	7.149 7.514	8.902 8.605	61.720	1.00 23.25
ATOM	5442	CZ		B 318	7.814	8.424	62.760	1.00 22.06
ATOM	5440	NE	ARG	B 318 B 318	8.974	7.561	62.652	1.00 22.32
ATOM	5434	CG CD		B 318	9.762	7.573	63.931	1.00 21.32
ATOM	5431	CB	ARG		11.155	7.112	63.709	1.00 19.79
ATOM ATOM	5429 5431	CA	ARG		12.083	6.983	64.928	1.00 19.48
MOTA	5427	N	ARG		13.377	6.502	64.426	1.00 18.61
ATOM	5426	0	ALA		14.389	6.571	66.400	1.00 18.89
ATOM	5425	С	ALA		14.421	6.332	65.204	1.00 18.68
ATOM	5421	CB	ALA	B 317	16.429	6.964	63.824	1.00 18.51
ATOM	5419	CA	ALA		15.695	5.811	64.522	1.00 18.26
ATOM	5417	N	ALA		15.400	4.745	63.552	1.00 17.55 1.00 18.26
ATOM	5416	Ö		B 316	14.749	3.401	63.902 65.074	1.00 17.34
ATOM	5415	C	THR		14.749	3.640	63.426	1.00 17.13
ATOM	5411	CG2	THR		16.367	0.804 1.251	61.491	1.00 14.80
ATOM	5407		THR		15.614 15.208	1.913	62.285	1.00 15.87
ATOM	5405 5407	CA	THR THR		14.366	2.674	62.780	1.00 16.08
ATOM	5403	N CA	THR		13.801	3.383	61.663	1.00 16.33
ATOM ATOM	5402 5403	O N	GLU		11.826	3.775	62.569	1.00 16.86
ATOM	5401	C	GLU		12.581	3.895	61.644	1.00 16.81
ATOM	5400		GLU		9.532	6.691	59.087	1.00 25.41
ATOM	5399		GLU		8.566	4.831	59.704	1.00 24.43
ATOM	5398	CD	GLU		9.477	5.446	59.101	1.00 22.89
ATOM	5395	CG	GLU		10.579	4.641	58.385	1.00 19.99
ATOM	5392	CB	GLU	B 315	11.424	3.831	59.375	1.00 17.30
ATOM	5390	CA	GLU	B 315	12.166	4.692	60.394	1.00 18.08
ATOM	5388	N	GLU		13.309		59.741	1.00 17.93
ATOM	5387	Õ	LEU		13.629	6.774	60.298 61.370	1.00 18.07 1.00 17.93
ATOM	5386	C	LEU	B 314	13.974	9.415 6.296	56.548	1.00 19.63
ATOM	5382		LEU		15.217	9.794	58.783	1.00 21.19
ATOM	5378		LEU		15.050 16.217	9.202	58.059	1.00 20.71
ATOM	5376	CG	LEU LEU		14.670	7.733	58.372	1.00 19.14
ATOM	5371	CA CB	LEU		15.184	6.842	59.509	1.00 18.65
ATOM ATOM	5369 5371	N	LEU		15.981	5.746	58.938	1.00 18.14
ATOM	5368	0	LEU		16.587	4.957	60.918	1.00 18.53
ATOM	5367 5369	C	LEU		16.618	4.884	59.701	1.00 18.25
MOTA	5363		LEU		20.170	2.424	59.473	1.00 18.97
ATOM	5359		LEU		20.869	3.421	57.305	1.00 19.14
ATOM	5357	CG	LEU .	B 313	19.673	3.040	58.189	1.00 18.56
ATOM	5354	CB	LEU		18.725	4.206	58.489	1.00 18.25
MOTA	5352	CA	LEU	B 313	17.357	3.744	58.995	1.00 18.33 1.00 18.26
ATOM	5350	N	LEU		16.551	3.235	59.178 57.888	1.00 16.83
ATOM	5349	Ö		B 312	14.911	2.612 2.420	58.082	1.00 18.35
ATOM	5348	С	MET	B 312	15.389	0 610	F0 000	

ATOM	5475	N	TYR	В	320	13.490	4.006	68.013	1.00 20.87	N	
ATOM	5477	CA	TYR			14.429	3.830	69.124	1.00 21.31		
ATOM	5479	CB	TYR			15.810	4.382	68.752	1.00 21.41		
ATOM	5482	CG	TYR		320	16.807	4.495	69.897	1.00 21.78		
ATOM	5483		TYR			17.366	3.355	70.464	1.00 21.54		
ATOM	5485		TYR			18.290	3.432	71.508	1.00 21.17	_	
ATOM	5487	CZ	TYR		320	18.689	4.668	71.998	1.00 21.48		
ATOM	5488	ОН	TYR			19.595	4.689	73.039	1.00 20.80		
ATOM	5490		TYR			18.163	5.837	71.448	1.00 21.45		
ATOM	5492	CD2				17.218	5.745	70.391	1.00 21.9		
ATOM	5494	C	TYR			13.868	4.515	70.387	1.00 21.80		
ATOM	5495	Ö	TYR			13.303	5.595	70.328	1.00 21.19		
ATOM	5496	N	ASN			13.998	3.843	71.521	1.00 22.40		
ATOM	5498	CA	ASN			13.573	4.373	72.802	1.00 22.7		
ATOM	5500	CB	ASN			12.708	3.358	73.550	1.00 22.9		
ATOM	5503	CG	ASN			12.145	3.903	74.842	1.00 22.6		7
ATOM	5504		ASN			11.047	3.543	75.250	1.00 22.6		
ATOM	5505		ASN		321	12.895	4.762	75.498	1.00 23.3		
ATOM	5508	С	ASN			14.835	4.609	73.562	1.00 23.2		
ATOM	5509	Ö	ASN			15.522	3.651	73.936	1.00 22.6		
ATOM	5510	N	HIS			15.151	5.884	73.795	1.00 24.1		
ATOM	5512	CA	HIS			16.393	6.224	74.473	1.00 24.4		
ATOM	5514	CB	HIS			16.671	7.716	74.398	1.00 24.8		
ATOM	5517	CG	HIS			18.070	8.070	74.772	1.00 26.2		
MOTA	5518	ND1	HIS			19.137	7.229	74.524	1.00 28.1		
MOTA	5520		HIS			20.247	7.791	74.968	1.00 29.8		
MOTA	5522		HIS			19.940	8.968	75.492	1.00 29.5		
MOTA	5524	CD2	HIS	В	322	18.582	9.162	75.388	1.00 28.2		
MOTA	5526	C	HIS	В	322	16.424	5.764	75.919	1.00 24.6		
MOTA	5527	0	HIS	В	322	17.498	5.505	76.451	1.00 24.4		
MOTA	5528	N	GLU	В	323	15.263	5.659	76.555	1.00 25.0	2 N	
MOTA	5530	CA	GLU	В	323	15.203	5.201	77.954	1.00 26.2		
MOTA	5532	CB	GLU	В	323	13.811	5.403	78.571	1.00 26.6	5 C	
MOTA	5535	CG	GLU	В	323	13.212	6.790	78.408	1.00 28.8	7 C	
ATOM	5538	CD	GLU	В	323	11.754	6.805	78.818	1.00 31.7	6 C	
MOTA	5539		GLU			10.910	6.371	77.989	1.00 33.5		
MOTA	5540	OE2	GLU			11.461	7.229	79.964	1.00 32.6		
MOTA	5541	С			323	15.596	3.725	78.122	1.00 25.8		
ATOM	5542	0			323	16.390	3.390	79.010	1.00 26.2	_	
ATOM	5543	N			324	15.012	2.852	77.298	1.00 24.9		
ATOM	5545	CA			324	15.311	1.418	77.351	1.00 24.2		
ATOM	5547	СВ			324	14.126	0.596	76.828	1.00 24.1		
ATOM	5549		THR			13.771	1.042	75.512	1.00 25.2		
ATOM	5551		THR	_		12.851	0.815	77.667	1.00 23.5		
ATOM	5555	С			324	16.557	1.042		1.00 24.2		
MOTA	5556	0			324	17.089	-0.046	76.731	1.00 23.8		
ATOM	5557	N			325	17.028	1.944	75.684	1.00 24.0		
MOTA	5559	CA			325	17.977	1.596	74.625	1.00 23.7		
ATOM	5561	CB			325	19.364	1.253	75.189	1.00 24.1		
ATOM	5564	CG			325	19.832	2.161	76.308	1.00 26.6		
MOTA	5567	CD			325	21.336	2.127	76.505	1.00 29.4		
MOTA	5568		GLU			21.818	1.245	77.250	1.00 32.9		
ATOM	5569		GLU			22.039	2.989	75.926	1.00 32.5		
ATOM	5570	C			325	17.472	0.421	73.791	1.00 22.5		
ATOM	5571	0			325	18.257	-0.448	73.445	1.00 22.3		
MOTA	5572	N			326	16.175	0.415	73.471	1.00 21.6		
ATOM	5574 5576	CA			326	15.556	-0.628	72.625	1.00 21.1		
MOTA	5576 5579	CB			326	14.577	-1.483	73.437	1.00 20.9		,
ATOM ATOM	5579 5580	SG			326 326	15.362 14.796	-2.639	74.570	1.00 19.5		
ATOM	5581	C O			326	14.796	-0.052 1.071	71.432 71.509	1.00 20.6		
ATOM_	2201		CID		320	14.300	1.0/1		1.00 20.4		•

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ATOM 5642 CG LEU B 330 6.728 -5.566 62.591 1.00 20.35	č
ATOM 5644 CD1 LEU B 330 6.402 -7.034 62.356 1.00 22.00	č
ATOM 5648 CD2 LEU B 330 6.785 -4.780 61.247 1.00 21.40	C
ATOM 5652 C LEU B 330 4.976 -2.784 64.763 1.00 21.47	c
ATOM 5653 O LEU B 330 4.895 -1.556 64.830 1.00 21.99	
ATOM 5654 N LYS B 331 4.326 -3.599 65.588 1.00 21.65	. 0
PMON CCCC CD THE TOOL	N
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	C
11220 01.000 1.00 25.11	C
2.2.0 07.000 1.00 24.02	C
7804 565 57	. C
7 mov 5 670 yr = 100 27.03	
11072 00.542 1.00 20.51	N
7000 5675 0 22.31	C
ATOM 5675 O LYS B 331 4.046 -2.242 68.794 1.00 22.32	0
ATOM 5676 N ASP B 332 4.759 -4.342 68.351 1.00 21.99	N
ATOM 5678 CA ASP B 332 5.142 -4.776 69.707 1.00 22.70	С
ATOM 5680 CB ASP B 332 4.166 -5.881 70.209 1.00 23.29	С
ATOM 5683 CG ASP B 332 2.813 -5.372 70.469 1.00 26.06	С
ATOM 5684 OD1 ASP B 332 2.666 -4.139 70.484 1.00 31.51	. 0
ATOM 5685 OD2 ASP B 332 1.838 -6.112 70.700 1.00 31.02	0
ATOM 5686 C ASP B 332 6.488 -5.470 69.789 1.00 21.82	Č
ATOM 5687 O ASP B 332 6.823 -6.033 70.836 1.00 22.97	. 0
ATOM 5688 N PHE B 333 7.205 -5.541 68.692 1.00 20.93	N
ATOM 5690 CA PHE B 333 8.393 -6.381 68.615 1.00 20.56	· C
ATOM 5692 CB PHE B 333 8.589 -6.931 67.175 1.00 20.26	c
ATOM 5695 CG PHE B 333 7.773 -8.187 66.859 1.00 18.60	Č
AMON FCOC CD1 PUR P DOC	C
AMON ECOO CD1 PUT T DOC	· C
AMON FRAA	C
	C
7.MOM 5704 GPO TURN T OFF	. C
amov cook a	. G
ATOM 5706 C PHE B 333 9.528 -5.473 69.008 1.00 20.49	. ~
	. C

ATOM	5707	0	י סעס	в 333	0.064	4 540	60 060		
ATOM					9.864	-4.548	68.262	1.00 20.91	0
	5708	N		В 334	10.100	-5.703	70.180	1.00 20.24	N
MOTA	5710	CA	THR 1	B 334	11.125	-4.806	70.703	1.00 20.44	Ċ
MOTA	5712	CB	THR 1	B 334	10.594	-3.926	71.894	1.00 20.17	č
ATOM	5714	OG1	THR 1	B 334	11.636	-3.678	72.846		
ATOM	5716	CG2		B 334	9.522			1.00 20.79	0
ATOM	5720	C				-4.614	72.673	1.00 21.30	C
				B 334	12.439	-5.534	71.012	1.00 20.30	C
ATOM	5721	0		B 334	12.449	-6.640	71.561	1.00 19.10	0
ATOM	5722	N	TYR !	B 335	13.534	-4.867	70.631	1.00 20.31	. И
ATOM	5724	CA	TYR 1	B 335	14.844	-5.473	70.484	1.00 20.40	
ATOM	5726	CB		B 335	15.174	-5.647			C
ATOM	5729	CG					68.990	1.00 20.45	C
				B 335	14.148	-6.448	68.225	1.00 20.55	C
ATOM	5730	CD1		B 335	13.154	-5.818	67.476	1.00 20.44	С
MOTA	5732	CE1	TYR 1	B 335	12.198	-6.569	66.797	1.00 19.73	Č
MOTA	5734	CZ	TYR 1	B 335	12.257	-7.953	66.864	1.00 19.12	č
ATOM	5735	OH		B 335	11.337	-8.725	66.209		
MOTA	5737	CE2		B 335	13.229	-8.579		1.00 17.64	0
ATOM	5739	CD2					67.601	1.00 19.14	C
			TYR I		14.159	-7.836	68.272	1.00 19.10	С
ATOM	5741	С		B 335	15.932	-4.612	71.129	1.00 20.52	C
ATOM	5742	0	TYR I	B 335	16.014	-3.412	70.893	1.00 20.05	Ŏ
MOTA	5743	N	SER 1	B 336	16.782	-5.251	71.922	1.00 20.43	
ATOM .	5745	CA		В 336	17.952	-4.597	72.486		N
ATOM	5747	CB		B 336	18.305			1.00 20.33	C
ATOM	5750	OG				-5.241	73.831	1.00 19.99	C
				В 336	18.585	-6.618	73.665	1.00 20.30	0
MOTA	5752	С		B 336	19.143	-4.690	71.528	1.00 20.27	С
MOTA	5753	0	SER 1	B 336	19.108	-5.427	70.523	1.00 19.81	Ō
MOTA	5754	N	LYS 1	B 337	20.185	-3.919	71.834	1.00 20.18	N
ATOM	5756	CA	LYS 1		21.451	-4.021	71.121	1.00 20.61	
MOTA	5758	CB		В 337	22.568	-3.298			C
ATOM	5761	CG					71.884	1.00 20.73	С
				В 337	22.946	-1.926	71.372	1.00 20.74	C
ATOM	5764	CD		В 337	24.458	-1.797	71.188	1.00 22.51	C
ATOM	5767	CE		B 337	24.986	-0.449	71.664	1.00 24.73	C
ATOM	5770	NZ	LYS 1	B 337	25.604	0.333	70.567	1.00 26.13	Ŋ
ATOM	5774	С	LYS I	B 337	21.835	-5.494	70.951	1.00 20.77	Č
ATOM	5775	0		В 337	22.051	-5.968	69.837		
ATOM	5776	N		B 338	21.905			1.00 20.79	0
ATOM	5778	CA				-6.215	72.065	1.00 20.59	N
				B 338	22.367	-7.594	72.041	1.00 20.75	C
MOTA	5780	CB		B 338	22.527	-8.136	73.470	1.00 20.88	C
ATOM	5783	CG	ASP 1	B 338	23.646	-7.453	74.224	1.00 21.14	C
MOTA	5784	OD1	ASP I	B 338	24.481	-6.772	73.571	1.00 23.64	ŏ
ATOM	5785		ASP I		23.767	-7.516	75.454	1.00 23.04	
ATOM	5786	C		B 338	21.493	-8.527			0
ATOM	5787	ŏ		B 338			71.193	1.00 20.83	C
		_			21.981	-9.566	70.726	1.00 20.93	0
MOTA	5788	N		в 339	20.221	-8.180	70.990	1.00 20.59	N
MOTA		CA	ASP 1	B 339	19.355	-8.971	70.098	1.00 20.18	C
MOTA	5792	CB	ASP I	в 339	17.901	-8.484	70.139	1.00 20.18	Č
MOTA	5795	CG		в 339	17.172	-8.945	71.373	1.00 20.18	
ATOM	5796		ASP I		17.694	-9.807			C
ATOM	5797	002	ASP I	220			72.080	1.00 21.91	0
MOTA					16.061	-8.521	71.725	1.00 22.48	0
	5798	C	ASP	B 339	19.864	-8.993	68.658	1.00 20.01	С
ATOM	5799	0	ASP 1	B 339	19.809	-10.031	67.992	1.00 19.12	0
MOTA	5800	N	PHE I	B 340	20.347	-7.845	68.185	1.00 20.00	N
ATOM	5802	CA		B 340	20.913	-7.732	66.842	1.00 20.04	
ATOM	5804	CB		B 340	21.054	-6.266	66.464		C
ATOM	5807	CG		B 340	19.739			1.00 19.91	C
ATOM						-5.540	66.446	1.00 18.63	С
	5808	CD1			19.324	-4.812	67.547	1.00 15.10	C
ATOM	5810		PHE I		18.111	-4.167	67.544	1.00 15.79	С
MOTA	5812	CZ	PHE 1	B 340	17.279	-4.273	66.438	1.00 16.79	Ċ
ATOM	5814	CE2	PHE 1	B 340	17.687	-5.004	65.329	1.00 16.17	č
ATOM	5816	CD2	PHE I	B 340	18.896	-5.640	65.341	1.00 17.09	c
MOTA	5818	С		B 340	22.248	-8.474	66.748	1.00 20.74	C
						V. 1.3		2.00 20.74	

ATOM	5819	0	PHE	В 34	<b>1</b>	22 E2C	0 160		
ATOM	5820	N	HIS			22.536	-9.163	65.759	1.00 20.52
ATOM	5822	CA	HIS			23.035	-8.357	67.814	1.00 20.93
ATOM	5824	CB	HIS			24.290	-9.068	67.939	1.00 21.23
ATOM	5827					24.945	-8.689	69.274	1.00 21.87
ATOM		CG		B 34		26.425	-8.874	69.296	1.00 24.32
	5828			B 34		27.258	-8.283	68.370	1.00 27.26
MOTA	5830			B 34		28.511	-8.619	68.637	1.00 29.23
ATOM	5832		HIS			28.520	-9.394	69.712	1.00 28.26
ATOM	5834		HIS			27.227	-9.569	70.143	1.00 26.81
ATOM	5836	С	HIS		L	24.062	-10.587	67.867	1.00 20.61
ATOM	5837	0	HIS		L	24.885	-11.326	67.338	1.00 19.93
ATOM	5838	N	ARG	B 34	2	22.923	-11.031	68.383	1.00 20.24
ATOM	5840	CA	ARG		2	22.622	-12.446	68.492	1.00 20.24
ATOM	5842	CB	ARG	B 34	2	21.609		69.603	1.00 20.30
MOTA	5845	CG	ARG	B 34	2	22.281	-12.799	70.960	1.00 21.07
ATOM	5848	CD	ARG	B 34	2	21.338	-13.108	72.105	1.00 22.73
ATOM	5851	NE	ARG	B 34	2	21.925	-12.713	73.387	1.00 24.61
MOTA	5853	CZ	ARG	B 34	2	21.680	-11.569	74.039	1.00 24.61
· MOTA	5854	NH1	ARG			20.828		73.557	1.00 25.57
MOTA	5857	NH2	ARG	B 34	2	22.292	-11.339	75.204	
ATOM .	5860	C	ARG	B 34	2	22.147	-13.060	67.175	
ATOM ·	5861	0	ARG			22.203	-14.279	67.005	
ATOM	5862	N	ALA			21.714	-12.209	66.253	1.00 20.38
ATOM	5864	CA	ALA			21.349	-12.602	64.899	1.00 20.25
MOTA	5866	CB .	ALA		3	20.282	-11.648	64.333	1.00 20.52
ATOM	5870	С	ALA			22 542	-12.636		1.00 20.71
ATOM	5871	0	ALA			22.342	-12.934	63.954	1.00 20.56
ATOM	5872	N	GLY		ĺ	23 736	-12.303	62.781	1.00 20.80
ATOM	5874	CA	GLY			24 962	-12.303	64.448	1.00 20.56
ATOM	5877	C	GLY			25 405	-11.172	63.681	1.00 20.76
ATOM	5878	ō	GLY			26 206	-11.172	62.972	1.00 21.42
ATOM	5879	N	LEU			24 702	-10.046	62.121	1.00 20.93
ATOM	5881	CA	LEU			25.185		63.313	1.00 22.33
ATOM	5883	CB	LEU			24.068	-8.778	62.709	1.00 23.03
ATOM	5886	CG	LEU			22.727	-7.734	62.844	1.00 23.04
ATOM	5888		LEU			21.729	-8.159	62.246	1.00 22.68
ATOM	5892		LEU			22.859	-7.055	62.440	1.00 23.50
ATOM	5896	C -	LEU			26.477	-8.503 -8.309	60.764	1.00 22.37
ATOM	5897	ō	LEU			26.695		63.369	1.00 23.48
ATOM	5898	N	GLN			27.351	-8.537 -7.700	64.568	1.00 23.52
ATOM	5900	CA	GLN			28.660	-7.700	62.570	1.00 23.84
ATOM	5902	CB	GLN			29.712	-7.277	63.066	1.00 24.25
ATOM	5905	CG	GLN			29.712	-7.209	61.935	1.00 24.57
ATOM	5908	CD	GLN				~6.362	60.715	1.00 25.35
ATOM	5909		GLN			30.330 30.205	-6.587	59.535	1.00 26.53
ATOM	5910	NE2	GLN	B 34			-5.934	58.498	1.00 31.38
ATOM	5913	C	GLN			31.263 28.566	-7.489	59.690	1.00 24.82
ATOM	5914	ŏ	GLN	B 34			-5.958	63.843	1.00 24.06
ATOM	5915		VAL	D 34.		27.653	-5.181	63.619	1.00 22.61
ATOM	5917	CA	VAL	D 34.		29.509	-5.752	64.774	1.00 24.61
MOTA	5919	CB	VAL	D 34.		29.551	-4.553	65.631	1.00 24.76
ATOM	5921		VAL :			30.753	-4.562	66.633	1.00 24.64
ATOM	5925	CG2	VAL :	D 34.		30.433	-3.707	67.857	1.00 24.46
ATOM	5929					31.109	-5.959	67.066	1.00 25.76
ATOM	5930	0	VAL	D 34'		29.670	-3.285	64.787	1.00 24.58
ATOM	5931	N	VAL :	D 34		29.117	-2.264	65.128	1.00 24.21
ATOM	5933	N	GLU I	B 348		30.403	-3.373	63.688	1.00 25.11
ATOM	5935		GLU I			30.570	-2.253	62.769	1.00 26.25
ATOM			GLU I			31.514	-2.630	61.611	1.00 26.63
ATOM	5938 5941		GLU I			32.980	-2.792	62.024	1.00 28.25
ATOM	5941		GLU I			33.376	-4.218	62.372	1.00 30.73
TION	JJ4Z	OE1	GLU 1	B 348		32.478	-5.084	62.504	1.00 32.74

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ATOM 5946 N PHE B 349 28.261. 20.265 61.856 1.00 27.24 N ATOM 5960 N PHE B 349 26.902 -2.559 61.625 1.00 26.35 N ATOM 5950 CB PHE B 349 26.902 -2.559 61.625 1.00 26.53 C ATOM 5950 CB PHE B 349 26.928 -3.652 61.030 1.00 27.07 C ATOM 5951 CD PHE B 349 24.801 -2.526 89.295 1.00 27.97 C ATOM 5954 CD PHE B 349 24.801 -2.526 89.295 1.00 29.03 C ATOM 5956 CE PHE B 349 22.534 -3.269 58.866 1.00 29.80 C ATOM 5956 CE PHE B 349 22.534 -3.269 58.866 1.00 29.80 C ATOM 5956 CE PHE B 349 22.534 -3.269 58.866 1.00 29.80 C ATOM 5950 CE PHE B 349 22.546 -4.345 60.537 1.00 29.40 C ATOM 5960 CE PHE B 349 22.668 -4.321 59.842 1.00 29.80 C ATOM 5960 CE PHE B 349 26.040 -1.845 62.782 1.00 29.40 C ATOM 5966 N ILE B 350 26.040 -1.845 62.782 1.00 26.01 C ATOM 5966 N ILE B 350 26.048 -2.555 63.895 1.00 27.32 O ATOM 5966 CA ILE B 350 25.144 -2.299 64.977 1.00 24.46 C ATOM 5970 CG ILE B 350 25.144 -2.299 64.977 1.00 24.46 C ATOM 5970 CG ILE B 350 25.4795 -4.753 65.561 1.00 25.04 N ATOM 5970 CG ILE B 350 25.4795 -4.753 65.561 1.00 23.35 C ATOM 5975 CG ILE B 350 25.4372 -2.977 67.316 1.00 23.35 C ATOM 5975 CG ILE B 350 25.4372 -2.977 67.316 1.00 23.35 C ATOM 5983 C ILE B 350 25.4372 -2.977 67.316 1.00 23.34 C ATOM 5987 CG ILE B 350 25.4372 -2.977 67.316 1.00 23.34 C ATOM 5987 CG ILE B 350 25.4372 -2.977 67.316 1.00 23.34 N ATOM 5987 CG ILE B 350 25.4372 -2.977 67.316 1.00 23.34 N ATOM 5987 CG ILE B 350 25.4372 -2.977 67.316 1.00 23.34 N ATOM 5987 CG ILE B 350 25.4372 -0.937 65.588 1.00 23.34 N ATOM 5987 CG ILE B 350 25.4372 -0.937 65.588 1.00 23.34 N ATOM 5987 CG ILE B 350 25.370 -0.937 65.588 1.00 23.34 N ATOM 5987 CG ILE B 350 25.370 -0.937 65.588 1.00 23.34 N ATOM 5987 CG ILE B 350 25.370 -0.937 65.588 1.00 23.34 N ATOM 5987 CG ILE B 350 25.370 -0.937 65.588 1.00 23.34 N ATOM 5987 CG ILE B 350 25.458 1.00 23.35 C ATOM 5987 CG ILE B 350 25.458 1.00 23.34 N C ATOM 5987 CG ILE B 350 25.458 1.00 23.34 N C ATOM 5987 CG ILE B 350 25.458 1.00 23.34 N C ATOM 5989 CG ILE B 351 26.651 0.00 26.65	ATOM ATOM	5943 5944		GLU E		348 348	34.595 29.241	-4.475 -1.768	62.528 62.205	1.00 31.99 1.00 26.52		0 C
ATOM   5946   N   PHE   B   349   28, 261   -2, 668   62, 091   1, 00   26, 35   N												
ATOM												
ATOM 5950 CB PHE B 349 24.955 -3.474 60.284 1.00 27.07 C ATOM 5954 CD1 PHE B 349 24.955 -3.474 60.284 1.00 27.97 C ATOM 5956 CE1 PHE B 349 24.955 -3.474 60.284 1.00 29.03 C ATOM 5958 CZ PHE B 349 22.554 -3.269 58.587 1.00 29.03 C ATOM 5958 CZ PHE B 349 22.554 -3.269 58.587 1.00 29.80 C ATOM 5960 CE2 PHE B 349 22.669 -4.231 59.842 1.00 26.08 C ATOM 5961 CE PHE B 349 22.669 -4.231 59.842 1.00 26.08 C ATOM 5962 CD2 PHE B 349 22.669 -4.231 59.842 1.00 26.01 C ATOM 5965 O PHE B 349 26.040 -1.845 60.537 1.00 29.40 C ATOM 5965 O PHE B 349 26.040 -1.845 60.537 1.00 29.40 C ATOM 5965 O PHE B 349 25.374 -0.808 62.667 1.00 27.32 O ATOM 5966 N LE B 350 26.048 -2.556 63.895 1.00 25.40 N ATOM 5968 CA ILE B 350 25.220 -3.375 66.089 1.00 24.46 C ATOM 5970 CB ILE B 350 25.214 -2.299 64.977 1.00 24.46 C ATOM 5971 CB ILE B 350 25.220 -3.375 66.089 1.00 24.46 C ATOM 5975 CDI ILE B 350 25.220 -3.375 66.089 1.00 24.46 C ATOM 5975 CDI ILE B 350 25.374 -0.808 62.667 1.00 25.40 C ATOM 5981 O ILE B 350 25.379 -0.937 65.588 1.00 23.35 C ATOM 5989 C B ASN B 351 26.615 -0.690 65.595 1.00 23.35 C ATOM 5989 C B ASN B 351 26.655 -0.690 65.959 1.00 23.14 N ATOM 5987 C B ASN B 351 26.655 -0.690 65.959 1.00 23.14 N ATOM 5987 C B ASN B 351 26.655 -0.690 65.959 1.00 23.14 N ATOM 5989 C B ASN B 351 28.417 0.385 67.280 1.00 23.18 C ATOM 5989 C B ASN B 351 28.6951 0.0465 66.797 1.00 23.18 C ATOM 5999 C B ASN B 351 28.417 0.385 67.280 1.00 23.14 N ATOM 5999 C B ASN B 351 28.417 0.385 67.280 1.00 23.14 N ATOM 5999 C B ASN B 351 28.417 0.385 67.280 1.00 23.14 N ATOM 5999 C B ASN B 351 28.417 0.385 67.280 1.00 23.14 N ATOM 5990 C B ASN B 351 28.6951 0.0465 66.797 1.00 23.18 C ATOM 6000 C B FOO B 352 25.514 1.100 24.06 66.797 1.00 23.18 C ATOM 6000 C B FOO B 352 25.515 1.00 24.06 66.797 1.00 23.18 C ATOM 6000 C B FOO B 352 25.515 1.00 24.06 66.797 1.00 23.18 C ATOM 6000 C B FOO B 352 25.376 66.691 3.00 21.00 24.25 C ATOM 6001 C B FOO B 352 25.376 66.691 3.00 21.00 24.25 C ATOM 6001 C B FOO B 352 25.376 66.691 3.00 21.00 24.25 C ATOM 6001 C B FOO B 352 25.				PHE I				-2.359	61.625			
ATOM 5954 CDI PIEB B 349							26.283	-3.652	61.030	1.00 27.07	•	С
ATOM 5956 CEL PHE B 349							24.955			1.00 27.97		С
ATOM 5958 CZ PHE B 349		5954	CD1	PHE !	в 3	349						С
ATOM 5962 CD2 PHE B 349	ATOM	5956										C.
ATOM 5965 O PHE B 349 26.040 -1.845 62.782 1.00 26.01 C C ATOM 5965 O PHE B 349 25.374 -0.808 62.667 1.00 27.32 O C ATOM 5966 N ILE B 350 26.048 -2.565 63.895 1.00 25.04 N ATOM 5970 CB ILE B 350 25.124 -2.299 64.977 1.00 24.466 C ATOM 5972 CG1 ILE B 350 25.220 -3.375 66.089 1.00 24.466 C ATOM 5975 CD1 ILE B 350 25.220 -3.375 65.561 1.00 25.40 C ATOM 5975 CD1 ILE B 350 25.391 -5.915 66.342 1.00 24.28 C ATOM 5979 CG2 ILE B 350 24.795 -4.753 65.561 1.00 23.374 C ATOM 5979 CG2 ILE B 350 24.372 -2.977 67.316 1.00 23.374 C ATOM 5983 C ILE B 350 24.456 -0.138 65.735 1.00 24.06 O ATOM 5984 O ILE B 350 24.456 -0.138 65.735 1.00 24.06 O ATOM 5985 N ASN B 351 26.651 -0.690 65.795 1.00 23.14 N ATOM 5987 CA ASN B 351 26.951 0.465 66.797 1.00 23.18 C ATOM 5989 C ASN B 351 26.951 0.465 66.797 1.00 23.18 C ATOM 5999 C ASN B 351 28.580 -0.413 68.591 1.00 24.26 C ATOM 5999 C ASN B 351 28.580 -0.413 68.591 1.00 24.26 C ATOM 5999 C ASN B 351 27.00 -0.408 69.119 1.00 24.24 C C ATOM 5999 C ASN B 351 27.00 -0.408 69.119 1.00 24.24 C C ATOM 5999 C ASN B 351 29.792 -0.408 69.119 1.00 24.24 C C ATOM 5999 C ASN B 351 25.978 2.661 66.788 1.00 22.25 C C ATOM 5999 N PRO B 352 27.011 2.040 64.898 1.00 22.25 C C ATOM 5999 N PRO B 352 27.010 2.040 64.898 1.00 22.25 C C ATOM 6000 C B PRO B 352 27.300 3.087 62.825 1.00 22.02 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.02 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.15 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.25 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.25 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.25 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.046 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.046 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.045 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.05 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.05 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.05 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.15 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1	MOTA										•	C
ATOM 5965 O PHE B 349 26.040 -1.845 62.782 1.00 26.01 C C ATOM 5965 O PHE B 349 25.374 -0.808 62.667 1.00 27.32 O C ATOM 5966 N ILE B 350 26.048 -2.565 63.895 1.00 25.04 N ATOM 5970 CB ILE B 350 25.124 -2.299 64.977 1.00 24.466 C ATOM 5972 CG1 ILE B 350 25.220 -3.375 66.089 1.00 24.466 C ATOM 5975 CD1 ILE B 350 25.220 -3.375 65.561 1.00 25.40 C ATOM 5975 CD1 ILE B 350 25.391 -5.915 66.342 1.00 24.28 C ATOM 5979 CG2 ILE B 350 24.795 -4.753 65.561 1.00 23.374 C ATOM 5979 CG2 ILE B 350 24.372 -2.977 67.316 1.00 23.374 C ATOM 5983 C ILE B 350 24.456 -0.138 65.735 1.00 24.06 O ATOM 5984 O ILE B 350 24.456 -0.138 65.735 1.00 24.06 O ATOM 5985 N ASN B 351 26.651 -0.690 65.795 1.00 23.14 N ATOM 5987 CA ASN B 351 26.951 0.465 66.797 1.00 23.18 C ATOM 5989 C ASN B 351 26.951 0.465 66.797 1.00 23.18 C ATOM 5999 C ASN B 351 28.580 -0.413 68.591 1.00 24.26 C ATOM 5999 C ASN B 351 28.580 -0.413 68.591 1.00 24.26 C ATOM 5999 C ASN B 351 27.00 -0.408 69.119 1.00 24.24 C C ATOM 5999 C ASN B 351 27.00 -0.408 69.119 1.00 24.24 C C ATOM 5999 C ASN B 351 29.792 -0.408 69.119 1.00 24.24 C C ATOM 5999 C ASN B 351 25.978 2.661 66.788 1.00 22.25 C C ATOM 5999 N PRO B 352 27.011 2.040 64.898 1.00 22.25 C C ATOM 5999 N PRO B 352 27.010 2.040 64.898 1.00 22.25 C C ATOM 6000 C B PRO B 352 27.300 3.087 62.825 1.00 22.02 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.02 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.15 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.25 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.25 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.25 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.046 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.046 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.045 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.05 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.05 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.05 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1.00 22.15 C ATOM 6001 C B PRO B 352 27.300 3.087 62.825 1												C
ATOM         5965         O         PHE B 349         25.374         -0.808         62.667         1.00 27.32         O           ATOM         5966         CA         ILE B 350         26.048         -2.565         53.985         1.00 25.04         N           ATOM         5966         CA         ILE B 350         25.114         -2.299         64.977         1.00 24.465         C           ATOM         5970         CB ILE B 350         25.219-3-375         66.089         1.00 24.465         C           ATOM         5975         CDI ILE B 350         24.795         -4.753         65.561         1.00 24.28         C           ATOM         5979         CG2 ILE B 350         24.372         -2.977         67.316         1.00 23.35         C           ATOM         5984         O ILE B 350         25.370         -0.937         65.585         1.00 23.35         C           ATOM         5987         CA         ASN B 351         26.615         -0.690         65.959         1.00 23.14         N           ATOM         5987         CA         ASN B 351         26.615         -0.690         65.959         1.00 23.18         C           ATOM         5998         CB												C
ATOM   5966   CA   LIE B   350   26.048   -2.565   63.895   1.00   25.04   N   ATOM   5970   CB   LIE B   350   25.220   -3.375   66.089   1.00   24.46   C   ATOM   5970   CB   LIE B   350   25.220   -3.375   66.089   1.00   24.46   C   ATOM   5972   CG1   LIE B   350   24.795   -4.753   65.561   1.00   25.40   C   ATOM   5975   CD1   LIE B   350   24.795   -4.753   65.561   1.00   24.28   C   ATOM   5979   CG2   LIE B   350   24.372   -2.977   67.316   1.00   23.35   C   ATOM   5979   CG2   LIE B   350   24.372   -2.977   67.316   1.00   23.374   C   ATOM   5983   C   LIE B   350   24.456   -0.138   65.735   1.00   24.06   O   ATOM   5985   N   ASN B   351   26.615   -0.690   65.959   1.00   23.14   N   ATOM   5987   CA   ASN B   351   26.951   0.465   66.797   1.00   23.18   C   ATOM   5989   CA   ASN B   351   26.951   0.465   66.797   1.00   23.11   C   ATOM   5999   CA   ASN B   351   28.580   -0.413   68.591   1.00   24.24   C   ATOM   5993   OT   ASN B   351   29.792   -0.408   69.119   1.00   24.24   C   ATOM   5997   C   ASN B   351   29.792   -0.408   69.119   1.00   24.24   C   ATOM   5999   C   ASN B   351   25.978   2.661   66.788   1.00   22.12   N   ATOM   5999   N   RO   8   352   27.011   2.040   64.898   1.00   22.14   C   ATOM   5999   N   RO   8   352   27.300   3.087   62.825   1.00   22.02   C   ATOM   6000   CA   RO   8   352   27.300   3.087   62.825   1.00   22.15   C   ATOM   6001   CA   RO   8   352   27.300   3.087   62.825   1.00   22.25   C   ATOM   6002   CB   RO   8   352   27.300   3.087   62.825   1.00   22.15   C   ATOM   6003   C   RO   8   352   27.300   3.087   62.825   1.00   22.25   C   ATOM   6005   CB   RO   8   352   27.300   3.087   62.825   1.00   22.25   C   ATOM   6001   CB   RO   8   352   27.300   3.087   62.835   1.00   22.15   C   ATOM   6002   CB   RO   8   352   27.300   3.087   62.825   1.00   22.25   C   ATOM   6001   CB   RO   8   352   27.300   3.087   62.825   1.00   22.25   C   ATOM   6002   CB   RO   8   352   27.300   3.087   62.835   1.00   22.15												
ATOM 5968 CA ILE B 350												
ATOM 5970 CB ILE B 350												
ATOM												
ATOM												2
ATOM   5979   CG2   ILE B   350   24.372   -2.977   67.316   1.00   23.35   C   ATOM   5984   O   ILE B   350   25.370   -0.937   65.588   1.00   23.74   C   ATOM   5985   N   ASN B   351   26.615   -0.690   65.959   1.00   23.18   C   ATOM   5987   CA   ASN B   351   26.615   -0.690   65.959   1.00   23.18   C   ATOM   5989   CB   ASN B   351   28.417   0.385   67.280   1.00   23.118   C   ATOM   5992   CG   ASN B   351   28.417   0.385   67.280   1.00   24.24   C   ATOM   5993   ODI   ASN B   351   28.580   -0.413   68.591   1.00   24.24   C   ATOM   5994   ND2   ASN B   351   29.792   -0.408   69.119   1.00   25.12   N   ATOM   5997   C   ASN B   351   29.792   -0.408   69.119   1.00   25.12   N   ATOM   5998   O   ASN B   351   25.978   2.661   66.758   1.00   22.05   C   ATOM   5999   O   ASN B   351   25.978   2.661   66.758   1.00   22.06   N   ATOM   5999   O   ASN B   352   27.011   2.040   64.898   1.00   22.06   N   ATOM   6000   CA   PRO B   352   27.300   3.279   64.196   1.00   22.97   C   ATOM   6002   CB   PRO B   352   27.300   3.279   64.196   1.00   22.97   C   ATOM   6008   CD   PRO B   352   27.840   1.161   64.060   1.00   22.45   C   ATOM   6011   C   PRO B   352   27.840   1.161   64.060   1.00   22.15   C   ATOM   6012   O   PRO B   352   24.700   4.640   64.081   1.00   22.15   C   ATOM   6012   O   PRO B   352   24.383   2.430   63.997   1.00   22.16   N   ATOM   6013   N   ILE B   353   22.240   4.640   64.048   1.00   22.15   C   ATOM   6017   CB   ILE B   353   22.240   4.640   64.048   1.00   22.15   C   ATOM   6010   CG   ILE B   353   22.267   63.897   1.00   22.46   C   ATOM   6010   CG   ILE B   353   22.267   63.897   1.00   22.46   C   ATOM   6010   CT   ET   ET   ET   ET   ET   ET   ET												č
ATOM 5984 C ILE B 350												Č
ATOM 5984 O LLE B 350												č
ATOM 5985 N ASN B 351												
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ATOM 6040 CD1 PHE B 354 21.786 -0.189 68.142 1.00 22.65 C ATOM 6042 CE1 PHE B 354 20.841 -1.166 68.358 1.00 22.86 C ATOM 6044 CZ PHE B 354 19.861 -0.976 69.308 1.00 24.11 C ATOM 6046 CE2 PHE B 354 19.837 0.206 70.052 1.00 24.26 C ATOM 6048 CD2 PHE B 354 20.793 1.177 69.830 1.00 23.71 C ATOM 6050 C PHE B 354 22.879 4.475 67.824 1.00 22.76 C ATOM 6051 O PHE B 354 22.102 5.260 68.340 1.00 23.11 O ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N ATOM 6054 CA GLU B 355 24.564 6.197 67.547 1.00 22.65 C ATOM 6056 CB GLU B 355 25.988 6.344 66.980 1.00 23.46 C ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71 C												C
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ATOM 6044 CZ PHE B 354 19.861 -0.976 69.308 1.00 24.11 C ATOM 6046 CE2 PHE B 354 19.837 0.206 70.052 1.00 24.26 C ATOM 6048 CD2 PHE B 354 20.793 1.177 69.830 1.00 23.71 C ATOM 6050 C PHE B 354 22.879 4.475 67.824 1.00 22.76 C ATOM 6051 O PHE B 354 22.102 5.260 68.340 1.00 23.11 O ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N ATOM 6054 CA GLU B 355 24.564 6.197 67.547 1.00 22.65 C ATOM 6056 CB GLU B 355 25.988 6.344 66.980 1.00 23.46 C ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71 C		6042					20.841	-1.166	68.358	1.00 22.8	6	
ATOM 6050 C PHE B 354 22.879 4.475 67.824 1.00 22.76 C ATOM 6051 O PHE B 354 22.102 5.260 68.340 1.00 23.11 O ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N ATOM 6054 CA GLU B 355 24.564 6.197 67.547 1.00 22.65 C ATOM 6056 CB GLU B 355 25.988 6.344 66.980 1.00 23.46 C ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71 C		6044					19.861				1	С
ATOM 6050 C PHE B 354 22.879 4.475 67.824 1.00 22.76 C ATOM 6051 O PHE B 354 22.102 5.260 68.340 1.00 23.11 O ATOM 6052 N GLU B 355 24.121 4.809 67.500 1.00 22.50 N ATOM 6054 CA GLU B 355 24.564 6.197 67.547 1.00 22.65 C ATOM 6056 CB GLU B 355 25.988 6.344 66.980 1.00 23.46 C ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71 C	MOTA	6046										С
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ATOM 6059 CG GLU B 355 27.097 6.173 68.008 1.00 25.71 C												C
ATOM 0062 CD GLU B 355 28.432 5.742 67.416 1.00 29.42 C												
	ATOM	0062	CD	بابل	ם י	333	45.432	5.742	01.416	, I.UU 23.4	. <b>L</b>	C

ATOM	6063	OE1	GLU	в 3	355	29.424	5.673	68.197	1 00 00 00
ATOM	6064	OE2			355	28.501	5.470	66.185	1.00 32.31
ATOM	6065	С	GLU		355	23.621	7.115	66.761	1.00 31.81
ATOM	6066	Ō	GLU		355	23.160	8.122		1.00 22.10
ATOM	6067	N	PHE		356 ·			67.282	1.00 22.03
ATOM	6069	CA				23.341	6.767	65.506	1.00 21.38
ATOM	6071		PHE		356	22.485	7.588	64.668	1.00 21.28
		CB	PHE		356	22.400	6.997	63.248	1.00 21.46
ATOM	6074	CG			356	21.411	7.703	62.349	1.00 19.88
ATOM	6075	CD1			356	21.728	8.922	61.765	1.00 20.32
ATOM	6077	CE1			356	20.799	9.572	60.929	1.00 19.72
ATOM	6079	CZ			356	19.551	8.977	60.686	1.00 19.12
ATOM	6081	CE2			356	19.240	7.769	61.280	1.00 19.42
ATOM	6083	CD2			356	20.165	7.140	62.093	1.00 18.90
ATOM	6085	С	PHE		356	21.083	7.753	65.278	1.00 21.70
MOTA	6086	0	PHE		356	20.522	8.848	65.286	1.00 21.32
ATOM	6087	N .	SER		357	20.537	6.665	65.818	1.00 22.22
ATOM	6089	CA	SER		357	19.198	6.693	66.379	1.00 22.34
ATOM	6091	CB	SER	B 3	357	18.761	5.297	66.834	1.00 22.15
ATOM	6094	OG	SER	в 3	357	18.850		65.770	1.00 20.39
ATOM	6096	С	SER	B 3	357	19.121	7.674	67.545	1.00 23.09
ATOM .	6097	0	SER		357	18.152	8.427	67.651	1.00 23.09
MOTA	6098	N	ARG		358	20.133	7.681	68.418	1.00 23.94
MOTA	6100	CA	ARG		358	20.055	8.569	69.578	1.00 25.94
ATOM	6102	CB	ARG		358	20.892	8.095	70.784	1.00 25.01
ATOM	6105	CG	ARG		358	22.385	8.167	70.784	
ATOM	6108	CD	ARG		358	23.090	7.636	71.963	1.00 27.29 1.00 29.36
ATOM	6111	NE	ARG		358	23.411	6.218	71.837	
ATOM	6113	CZ	ARG		358	24.583	5.717	71.637	1.00 31.12
MOTA	6114		ARG		358	25.612	6.508	71.116	1.00 32.37
ATOM	6117		ARG		358	24.727	4.395		1.00 32.15
ATOM	6120	С	ARG		358	20.314	10.010	71.336	1.00 32.81
ATOM	6121	Õ	ARG		358	19.812		69.171	1.00 24.86
ATOM	6122	N	ALA		359	21.028	10.920	69.815	1.00 24.77
ATOM	6124	CA	ALA		359	21.193	10.213	68.064	1.00 25.00
ATOM	6126	CB	ALA		359	22.292	11.559	67.510	1.00 25.04
ATOM ·	6130	C	ALA		359 359		11.581	66.462	1.00 25.27
ATOM	6131	ŏ	ALA		159 159	19.866	12.069	66.946	1.00 25.27
ATOM	6132	Ň			160	19.472 19.163	13.211	67.213	1.00 24.83
ATOM	6134	CA			160		11.205	66.208	1.00 25.58
ATOM	6136	CB			60	17.848	11.524	65.692	1.00 26.02
ATOM	6139	CG			60	17.311	10.355	64.891	1.00 26.75
ATOM	6142	SD			60	17.865	10.264	63.462	1.00 26.69
ATOM	6143	CE			60	17.600	11.773	62.530	1.00 26.78
ATOM	6147	C		B 3	260	15.878	11.818	62.334	1.00 29.20
ATOM	6148	ŏ				16.870	11.875	66.805	1.00 27.02
ATOM	6149	N	MET ARG	כם	61	16.050	12.758	66.648	1.00 27.29
ATOM	6151	CA	ARG	ם כ	161	16.975	11.221	67.950	1.00 28.14
ATOM	6153	CB	ARG			16.062	11.498	69.052	1.00 29.35
ATOM	6156	CG	ARG			16.202	10.452	70.169	1.00 29.79
ATOM	6159	CD	ARG			14.909	10.252	70.977	1.00 32.56
ATOM	6162	NE	ARG			14.982	10.424	72.510	1.00 33.68
ATOM	6164	CZ				15.990	11.386	72.937	1.00 36.77
ATOM	6165		ARG	5 5	61	16.081	11.895	74.152	1.00 39.67
ATOM	6168	MILL	ARG	D 3	61	15.210	11.563	75.105	1.00 41.48
ATOM	6171		ARG			17.049	12.766	74.417	1.00 42.15
ATOM		С	ARG			16.246	12.903	69.621	1.00 29.48
ATOM	6172	O N	ARG			15.260	13.539	69.984	1.00 29.69
ATOM	6173	N	ARG			17.489	13.394	69.692	1.00 29.21
	6175	CA	ARG :			17.754	14.740	70.221	1.00 29.26
ATOM	6177	CB	ARG			19.255	15.033	70.233	1.00 29.68
ATOM	6180	CG	ARG :			20.021	14.231	71.246	1.00 31.69
ATOM	6183	CD	ARG :	в 3	62	21.494	14.550	71.257	1.00 34.31

MOTA ATOM ATOM ATOM MOTA MOTA	6186 6188 6189 6192 6195 6196	CZ NH1 NH2 C	ARG I ARG I ARG I ARG I ARG I	B : B : B : B : B : B : B : B : B : B :	362 362 362 362 362	22.297 23.121 23.289 23.790 17.060 16.831	13.329 12.930 13.642 11.795 15.871 16.967	71.265 70.302 69.186 70.459 69.446 69.983	1.00 37.98 1.00 39.97 1.00 41.73 1.00 40.75 1.00 28.31 1.00 28.38	N C N N C O
ATOM ATOM	6197 6199	N CA	LEU :		363 363	16.780 16.062	15.615 16.560	68.178 67.347	1.00 26.86 1.00 26.19	И С
ATOM	6201	CB	LEU			16.284	16.250	65.863	1.00 26.56	C
ATOM	6204	CG	LEU			17.691	16.558	65.383	1.00 25.98	C
ATOM ATOM	6206 6210	CD1 CD2	LEU		363 363	17.832 17.982	16.210 18.007	63.925 65.616	1.00 26.41 1.00 28.05	. C
ATOM	6214	CDZ	LEU			14.583	16.548	67.632	1.00 25.35	Č
ATOM	6215	Ō	LEU	В	363	13.912	17.494	67.326	1.00 25.36	0
MOTA	6216	N	GLY			14.061	15.456	68.163	1.00 24.96	N
MOTA	6218	CA C	GLY GLY		364	12.648 11.724	15.379 15.691	68.501 67.343	1.00 24.26 1.00 23.80	c c
ATOM ATOM	6221 6222	0	GLY			10.814	16.502	67.481	1.00 23.00	. 0
ATOM	6223	N	LEU	В	365	11.953	15.056	66.195	1.00 23.27	N
MOTA	6225	CA	LEU			11.122	15.300	65.028	1.00 23.05	C
MOTA	6227	CB	LEU			11.695 13.100	14.622	63.777 63.236	1.00 22.95 1.00 24.40	. C
ATOM ATOM	6230 6232	CG CD1	LEU LEU			13.116	14.889 14.608	61.771	1.00 24.40	C
ATOM	6236		LEU			13.574	16.268	63.444	1.00 25.76	C
ATOM	6240	С	LEU	В	365	9.713	14.754	65.254	1.00 22.55	С
MOTA	6241	0	LEU			9.541	13.661	65.776	1.00 21.66	0
ATOM ATOM	6242 6244	N CA	ASP ASP			8.716 7.357	15.503 14.999	64.821 64.806	1.00 22.33 1.00 22.52	N C
ATOM	6246	CB	ASP			6.358	16.137	65.116	1.00 22.86	С
ATOM	6249	CG	ASP			6.347	17.260	64.089	1.00 23.02	C
MOTA	6250		ASP			6.755	17.051	62.929	1.00 24.65	0
MOTA	6251 6252		ASP ASP			5.909 7.066	18.405 14.218	64.382 63.490	1.00 23.11 1.00 22.72	0 C
ATOM ATOM	6253	С 0	ASP		366	8.012	13.887	62.722	1.00 23.30	ŏ
ATOM	6254	N	ASP			5.800	13.881	63.262	1.00 21.59	N
MOTA	6256	CA	ASP		367	5.362	13.148	62.071	1.00 21.79	C
MOTA	6258	CB	ASP		367	3.845 3.471	12.838 11.840	62.134 63.205	1.00 22.31 1.00 23.80	C
ATOM ATOM	6261 6262	CG OD1	ASP		367 367	4.366	11.222	63.788	1.00 25.82	ő
ATOM	6263		ASP			2.275	11.591	63.517	1.00 29.95	0
MOTA	6264	С	ASP	В	367	5.570	13.895	60.760	1.00 21.22	C
ATOM	6265	0			367	5.936	13.290	59.780	1.00 21.08	0
ATOM ATOM	6266 6268	N CA	ALA		368 368	5.231 5.378	15.178 16.003	60.725 59.521	1.00 21.32 1.00 21.50	и С
ATOM	6270	CB			. 368	4.779	17.356	59.731	1.00 21.08	Ċ
MOTA	6274	С			368	6.861	16.145	59.141	1.00 22.22	C
ATOM	6275	0			368	7.217	16.110	57.970	1.00 22.94	О N
MOTA MOTA	6276 6278	N CA			369 369	7.724 9.144	16.275 16.389	60.140 59.878	1.00 21.58 1.00 21.28	C
ATOM	6280	CB			369	9.855	16.904	61.119	1.00 20.76	С
MOTA	6283	CG			369	9.515	18.345	61.390	1.00 20.19	С
ATOM	6286	CD			369	9.953	18.786	62.760		C 0
ATOM ATOM	6287 6288		GLU GLU			10.285 9.964	19.973 17.950	62.899 63.697		0
ATOM	6289	C			369	9.804	15.099	59.373		c
MOTA	6290	0	GLU	В	369	10.580	15.172	58.454	1.00 20.01	0
MOTA	6291	N			370	9.520	13.943	59.994		И
ATOM ATOM	6293 6295	CB			370 370	9.988 9.540	12.643 11.471	59.473 60.364		C
ATOM	6298	CG			370	10.539		61.446		č
ATOM	6299		LTYR			 10.303	11.338	62.823		С

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6301 6303 6304 6306 6308 6310 6311 6312 6314 6316 6320 6321 6322 6324 6329 6331 6335 6339	CE1 CZ OH CE2 CD2 C O N CA CB C CD1 CD2 CD2	LEU :	B 370 B 370 B 370 B 370 B 370 B 371 B 371 B 371 B 371 B 372 B 372 B 372 B 372 B 372 B 372		8.359 8.706 8.548 9.180 9.105 7.689 7.624 7.225 10.611	10.951 10.325 9.900 10.059 10.431 12.422 12.030 12.730 12.421 12.587 13.261 12.767 14.539 15.440 16.859 17.431 18.763 17.620 15.052	63.809 63.377 64.210 62.054 61.107 58.020 57.132 57.751 56.437 56.437 54.311 55.652 54.698 55.216 55.202 53.763 54.473	1.00 18.80 1.00 20.52 1.00 25.00 1.00 19.04 1.00 17.94 1.00 22.05 1.00 22.17 1.00 22.69 1.00 22.87 1.00 22.57 1.00 23.55 1.00 22.74 1.00 21.26 1.00 21.25 1.00 18.39 1.00 18.33 1.00 15.93 1.00 21.77
ATOM	6340	0	LEU :	B 372		11.077	15.043	53.328	1.00 21.77
ATOM ATOM	6341	N	LEU			11.323	14.708	55.548	1.00 21.56
ATOM	6343 6345	CA CB	LEU I			12.721	14.252	55.409	1.00 21.75
ATOM	6348	CG	LEU I			13.334 14.494	13.852 14.616	56.743 57.324	1.00 22.45 1.00 25.72
MOTA	6350		LEU			15.057	13.823	58.512	1.00 25.72
ATOM	6354		LEU :			15.570	14.831	56.300	1.00 29.29
ATOM ATOM	6358 6359	C	LEU I		•	12.825	13.055	54.497	1.00 20.74
ATOM	6360	O N	LEU I			13.737	12.942	53.702	1.00 19.81
ATOM	6362	CA	ILE :		-	11.886 11.846	12.137 10.939	54.642 53.817	1.00 21.08
ATOM	6364	CB	ILE I			10.747	10.013	54.335	1.00 20.57 1.00 20.39
ATOM	6366	CG1	ILE 1	B 374		11.229	9.286	55.577	1.00 20.95
ATOM	6369	CD1	ILE I			10.125	8.645	56.372	1.00 22.08
ATOM ATOM	6373 6377		ILE I			10.306	8.997	53.280	1.00 20.41
ATOM	6378	C O	ILE I			11.633 12.390	11.339		1.00 21.21
ATOM	6379	N	ALA			10.633	10.936 12.154	51.490 52.046	1.00 22.26 1.00 21.55
ATOM	6381	CA	ALA	375		10.410	12.616	50.662	1.00 21.80
ATOM	6383	CB	ALA I			9.202	13.536	50.590	1.00 22.06
ATOM ATOM	6387	C	ALA			11.635	13.314	50.077	1.00 21.85
ATOM	6388 6389	O N	ALA I			11.967	13.118	48.893	1.00 21.92
ATOM	6391	CA	ILE I			12.318 13.541	14.114 14.782	50.897	1.00 21.50
ATOM	6393	CB	ILE :			14.041	15.802	50.457 51.532	1.00 21.19 1.00 20.88
ATOM	6395	CG1	ILE 1	376		13.075	16.989		1.00 20.00
ATOM	6398		ILE 1			13.262	17.836	52.954	1.00 23.09
ATOM ATOM	6402 6406	CG2 C	ILE 1			15.469	16.325	51.249	1.00 18.77
ATOM	6407	0	ILE I			14.607 15.337	13.720	50.128	1.00 21.39
ATOM	6408	N	ASN			14.676	13.852 12.672	49.181 50.929	1.00 21.54 1.00 21.99
MOTA	6410	CA	ASN I			15.626	11.580	50.735	1.00 21.99
ATOM	6412	CB	ASN 1			15.584	10.615	51.929	1.00 21.16
ATOM .		·CG	ASN I			16.707	9.585	51.892	1.00 22.85
ATOM	6416 6417		ASN I			17.801	9.787	52.439	1.00 26.20
ATOM	6420	C	ASN I			16.451 15.384	8.492 10.825	51.231 49.426	1.00 23.87 1.00 21.04
ATOM	6421	0	ASN I			16.333	10.529	48.695	1.00 21.04
ATOM	6422	N	ILE 1	3 3 7 8		14.125	10.537	49.136	1.00 20.01
ATOM	6424	CA	ILE !			13.728	9.918	47.866	1.00 20.25
ATOM ATOM	6426 6428	CB CG1	ILE I			12.192	9.710	47.841	1.00 20.41
				- 510		11.834	8.657	48.899	1.00 21.58

ATOM	6431	CD1	ILE B	378	10.412	8.370	49.038	1.00 23.80	С
ATOM	6435			378	11.714	9.248	46.466	1.00 20.06	č
ATOM	6439			378	14.164	10.713	46.655	1.00 20.30	Ċ
ATOM	6440		ILE B		14.673	10.146	45.685	1.00 20.64	Ö
MOTA	6441			379	13.975	12.032	46.688	1.00 20.97	N
ATOM	6443		PHE B		14.327	12.868	45.533	1.00 20.85	C
ATOM	6445			379	13.307	13.978	45.325	1.00 21.03	Č
ATOM	6448		PHE B	379	11.938	13.483	45.028	1.00 18.73	Č
ATOM	6449		PHE B		10.895	13.715	45.904	1.00 19.42	Č
ATOM	6451		PHE B		9.595	13.260	45.618	1.00 18.25	č
ATOM	6453				9.358	12.588	44.424	1.00 19.28	Ċ
ATOM	6455		PHE B		10.394	12.365	43.550	1.00 19.35	Ċ
ATOM	6457		PHE B		11.675	12.824	43.848	1.00 20.53	Ċ
ATOM	6459	C	PHE B		15.734	13.437	45.618	1.00 21.55	С
ATOM	6460	Ö	PHE B		15.928	14.630	45.451	1.00 21.95	Ō
ATOM	6461	N	SER B		16.716	12.566	45.849	1.00 22.01	N
MOTA	6463	CA			18.141	12.921	45.766	1.00 22.48	С
ATOM	6465	CB	SER B		18.977	12.086	46.752	1.00 22.20	С
ATOM	6468	OG	SER B		18.295	11.940	47.977	1.00 21.09	0
MOTA	6470	С			18.678	12.677	44.389	1.00 22.12	· C
ATOM	6471	0	SER B		18.734	11.575	43.966	1.00 22.42	0
ATOM	6472	N	ALA B		19.158	13.709	43.728	1.00 24.24	N
ATOM	6474	CA	ALA B		19.547	13.663	42.304	1.00 24.67	С
ATOM	6476	CB	ALA B		19.458	15.063	41.711	1.00 24.77	С
MOTA	6480	С	ALA B		20.937	13.107	42.055	1.00 25.40	С
MOTA	6481	0	ALA B		21.322	12.885	40.900	1.00 26.89	0
MOTA	6482	N	ASP B		21.715	12.895	43.110	1.00 24.87	N
ATOM	6484	CA	ASP B	382	23.031	12.317	42.942	1.00 24.87	С
MOTA	6486	CB	ASP B	382	23.974	12.947	43.964	1.00 25.09	C
MOTA	6489	CG	ASP B	382	23.696	12.451	45.357	1.00 26.78	С
ATOM	6490	OD1	ASP B	382	22.509	12.291	45.704	1.00 28.37	0
ATOM	6491	OD2	ASP B	382	24.589	12.135	46.160	1.00 28.69	0
MOTA	6492	С	ASP B	382	23.066	10.776	43.074	1.00 24.13	C
ATOM	6493	0	ASP B	382	24.125	10.200	43.316	1.00 24.36	0
ATOM	6494	N	ARG B	383	21.928	10.095	42.957	1.00 23.11	N
MOTA	6496	CA	ARG B	383	21.933	8.634	43.049	1.00 21.78	C
ATOM	6498	CB	ARG B		20.518	8.111	43.232	1.00 21.83	С
ATOM	6501	CG	ARG B		19.814	8.623	44.440	1.00 20.99	С
ATOM	6504	CD	ARG B		20.545	8.433	45.741	1.00 20.33	С
MOTA	6507	NE	ARG B		19.596	8.511	46.864	1.00 21.84	N
MOTA	6509	cz	ARG B		19.918	8.333	48.131	1.00 21.53	. C
MOTA	6510		ARG B		21.145	8.007	48.472	1.00 20.87	N
MOTA	6513		ARG B		18.980	8.408	49.059	1.00 23.87	N
MOTA	6516	C	ARG B		22.505	8.056	41.760	1.00 21.41	C
ATOM	6517	0	ARG E		22.374	8.667	40.709	1.00 21.61	0
ATOM	6518	N	PRO B		23.090	6.869	41.801	1.00 20.87	N
MOTA	6519	CA	PRO E		23.582	6.251	40.559	1.00 20.64	C
MOTA	6521	CB	PRO E		24.368	5.002	41.035	1.00 20.73	C
MOTA	6524	CG	PRO E		24.050	4.814	42.506	1.00 20.95	C
ATOM	6527	CD	PRO E		23.284	6.012	42.984	1.00 20.98	C
ATOM	6530	C	PRO E		22.442	5.862	39.582	1.00 19.58	C
MOTA	6531	0	PRO E		21.321	5.562	39.988	1.00 19.38	0
MOTA	6532	N	ASN E		22.773	5.923	38.300	1.00 19.15	N
ATOM	6534	CA	ASN E		21.928	5.546	37.187	1.00 18.87	C
ATOM	6536	CB	ASN E		21.539	4.064	37.266	1.00 19.17	C
ATOM	6539	CG	ASN E		22.741	3.138	37.378	1.00 19.97	C
MOTA	6540		ASN E		22.846	2.358	38.322	1.00 23.24	O
MOTA	6541		ASN E		23.634	3.212	36.422	1.00 19.17	Й
ATOM	6544	C	ASN E		20.677	6.412	37.009	1.00 18.90	
MOTA	6545	0	ASN E		19.758 20.630	6.015 7.595	36.312 37.609	1.00 19.01 1.00 18.05	О И
MOTA	6546	N	VAL I	3 386	20.630	1.333	37.609	1.00 10.05	

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ATOM ATOM	6548 6550	CA	VAL B			9.492	8.466	37.390		18.00	
ATOM	6552	CB CG1	VAL B			9.341	9.452	38.535		17.77	
ATOM	6556		VAL B			8.322	10.502	38.195		18.53	
ATOM	6560	C	VAL B			8.920 9.667	8.706 9.161	39.830		18.13	
ATOM	6561	ŏ	VAL B			0.736	9.692	36.023 35.730	1.00	18.53	
ATOM	6562	N	GLN B			8.632	9.112	35.730		18.62 18.75	
MOTA	6564	CA				8.670	9.694	33.829		18.96	
ATOM	6566	CB	GLN B			7.850	8.854	32.889		19.60	
ATOM	6569	CG	GLN B			8.514	7.502	32.605		23.43	
ATOM	6572		GLN B	387		7.662	6.666	31.704		27.31	
ATOM	6573		GLN B			7.705	6.860	30.486		33.18	
MOTA	6574	NE2			1	6.866	5.751	32.272.		26.97	
ATOM	6577	С				8.188	11.128			18.62	
MOTA	6578	0	GLN B			8.598	11.841	32.854	1.00	17.67	
ATOM	6579	И.	GLU B			7.328	11.555	34.672	1.00	18.51	
ATOM	6581	CA	GLU B			6.893	12.948	34.726		18.71	
ATOM	6583	CB	GLU B			5.406	13.064	34.376		19.03	
ATOM ATOM	6586	CG	GLU B			5.119	12.747			20.30	
ATOM .	6589 6590	CD OE1	GLU B			3.677 2.907	12.993	32.593		21.79	
ATOM	6591	OE1				3.324	12.005	32.582		24.61	
ATOM	6592	C	GLU B			7.173	14.167 13.573	32.345 36.091		20.18	
ATOM	6593	ŏ	GLU B			6.247	13.948	36.787		18.20 17.43	
MOTA	6594	N	PRO B			8.453	13.702	36.462		18.44	
ATOM	6595	CA	PRO B			8.815	14.248	37.773		18.55	
MOTA	6597	CB	PRO B			0.346	14.213	37.776		19.60	
ATOM	6600	CG	PRO B	389		0.783	13.940	36.330		17.71	•
MOTA	6603	CD	PRO B			9.641	13.313	35.664		17.77	
ATOM	·6606	С	PRO B		1	8.303	15.665	38.029		19.06	
MOTA	6607	0	PRO B			7.938	15.957	39.172		20.06	
ATOM	6608	N	GLY B			.8.252	16.525	37.018		18.94	
ATOM	6610	CA	GLY B			7.707	17.878	37.178	1.00	18.72	
MOTA	6613	C	GLY B			6.244	17.849	37.526		18.89	
ATOM ATOM	6614 6615	O N	GLY B			5.744	18.568	38.368		19.36	
ATOM	6617	CA	ARG B			5.545	16.955	36.876		19.62	
ATOM	6619	CB	ARG B			.4.146 .3.645	16.715 15.740	37.160		20.15	
ATOM	6622	CG	ARG B			2.195	15.593	36.124 36.115		20.61 24.70	
ATOM	6625	CD	ARG B			1.492	16.493	35.187		29.28	
ATOM	6628	NE	ARG B			0.232	15.812	34.933		34.22	
MOTA	6630	CZ	ARG B			9.037	16.308	35.165		37.37	
MOTA	6631	NH1	ARG B	391		8.862	17.557	35.639		37.23	
ATOM	6634		ARG B			7.999	15.534	34.887		39.85	
ATOM		C	ARG B			.3.904	16.196	38.573	1.00	19.58	
ATOM	6638	0	ARG B			2.973	16.602	39.248		20.55	
ATOM	6639	N	VAL B			4.766	15.327	39.057		19.61	
ATOM ATOM	. 6641	CA	VAL B			4.648	14.844	40.428		19.35	
ATOM	6643 6645	CB	VAL B			5.645	13.683	40.694		19.17	
ATOM	6649		VAL B			.5.677 .5.276	13.306	42.168		17.59	
ATOM	6653	C	VAL B			4.889	12.483	39.856		19.32	
MOTA	6654	ŏ	VAL B			4.266	15.984 16.037	41.415		19.99	
ATOM	6655	Ŋ	GLU B			5.814	16.880	42.462 41.102		19.77 21.29	
ATOM	6657	CA	GLU B			6.120	17.986	41.998		22.72	
MOTA	6659	CB	GLU B			7.387	18.707	41.562		23.91	
MOTA	6.662	CG	GLU B	393		7.816	19.798	42.531		27.69	
MOTA	6665	CD	GLU B		1	19.290	20.112	42.440		33.96	
ATOM	6666	OE1				19.993	19.930	43.467		40.25	
ATOM	6667	OE2				19.751	20.546	41.346	1.00	37.57	
MOTA	6668	С	GLU B	393	1	14.975	18.957	42.032	1.00	22.64	
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ATOM	6669	0	GLU	ъ	303	14.656	10 405	42 076	1 00 04 10	_
ATOM	6670						19.485	43.076	1.00 24.10	0
			ALA			14.320	19.166	40.900	1.00 22.81	N
ATOM	6672	CA	ALA			13.176	20.066	40.863	1.00 22.69	С
ATOM	6674	CB	ALA	В	394	12.795	20.396	39.450	1.00 22.06	· C
ATOM	6678	С	ALA	В	394	11.981	19.467	41.617	1.00 23.03	č
ATOM	6679	0	ALA			11.202	20.231	42.181		
									1.00 23.92	0
MOTA	6680	N	LEU			11.816	18.131	41.634	1.00 22.54	N
ATOM	6682	CA	LEU			10.742	17.525	42.445	1.00 21.91	C
ATOM	6684	CB	LEU	В	395	10.406	16.116	41.975	1.00 22.77	C
ATOM	6687	CG	LEU	В	395	9.971	15.956	40.516	1.00 24.05	. Č
ATOM	6689		LEU			9.943	14.498	40.103		
ATOM	6693		LEU						1.00 27.97	С
						8.618	16.573	40.261	1.00 25.94	C
MOTA	6697	С			395	11.065	17.528	43.939	1.00 21.66	С
MOTA	6698	0	LEU	В	395	10.176	17.494	44.774	1.00 22.24	0
ATOM	6699	N	GLN	В	396	12.342	17.606	44.282	1.00 21.70	N
MOTA	6701	CA			396	12.774	17.642	45.662	1.00 21.46	ີ ເ
ATOM	6703	СВ			396	14.290	17.407	45.748		
ATOM									1.00 21.16	C
	6706	CG			396	14.762	17.278	47.157	1.00 19.91	. C
MOTA	6709	CD			396	16.242	17.271	47.304	1.00 18.53	C
ATOM	6710	OE1	GLN	В	396	16.814	16.357	47.872	1.00 21.58	0
MOTA	6711	NE2	GLN	В	396	16.853	18.307	46.880	1.00 19.04	N
MOTA	6714	С			396	12.512	18.999	46.310	1.00 22.42	
ATOM	6715	ŏ			396	12.311	19.083			C
								47.531	1.00 22.74	0
ATOM	6716	N			397	12.609	20.059	45.515	1.00 21.79	N
ATOM	6718	CA			397	12.642	21.406	46.061	1.00 22.10	C
ATOM	6720	CB	GLN	В	397	12.921	22.426	44.932	1.00 21.93	· C
ATOM	6723	CG	GLN	В	397	12.340	23.784	45.175	1.00 25.00	Č
ATOM	6726	CD			397	12.712	24.823	44.098	1.00 27.36	č
ATOM	6727	OE1			397	13.741	24.712			
ATOM								43.446	1.00 29.73	0
	6728	NE2			397	11.843	25.817	43.907	1.00 28.44	N
ATOM	6731	С			397	11.399	21.804	46.892	1.00 21.10	С
MOTA	6732	0	GLN	В	397	11.548	22.460	47.924	1.00 20.27	0
MOTA	. 6733	N	PRO	В	398	10.197	21.491	46.413	1.00 20.27	N
ATOM	6734	CA			398	8.978	21.775	47.170	1.00 20.48	Č
ATOM	6736	СВ			398	7.853	21.157	46.285	1.00 20.46	
ATOM	6739	CG								C
					398	8.399	21.083	44.907	1.00 20.28	С
ATOM	6742				398	9.897	20.933	45.078	1.00 20.66	С
ATOM	6745	C	PRO	В	398	8.955	21.149	48.595	1.00 20.52	C
ATOM	6746	0	PRO	В	398	8.406	21.758	49.513	1.00 19.86	0
ATOM	6747	N	TYR	В	399	9.513	19.947	48.736	1.00 19.95	N
MOTA	6749	CA			399	9.694	19.267	50.017	1.00 19.66	Č
ATOM	6751	CB			399	10.095	17.794			
								49.771	1.00 19.96	C
ATOM	6754	CG			399	8.992	17.060	49.082	1.00 20.60	С
ATOM	6755	CD1			399	9.067	16.731	47.722	1.00 21.38	C
MOTA	6757	CE1	TYR	В	399	7.972	16.080	47.079	1.00 20.43	C
ATOM	6759	CZ	TYR	В	399	6.844	15.797	47.808	1.00 18.83	С
ATOM	6760	OH			399	5.769	15.177	47.250	1.00 21.91	ő
ATOM	6762		TYR			6.764	16.139	49.136	1.00 18.87	
ATOM	6764	CD2								C
					399	7.815	16.777	49.758	1.00 18.80	С
MOTA	6766	С			399	10.702	19.951	50.936	1.00 19.16	C
MOTA	6767	0	TYR	В	399	10.465	20.049	52.148	1.00 18.16	0
MOTA	6768	N	VAL	В	400	11.812	20.431	50.376	1.00 18.94	· N
ATOM	6770	CA			400	12.788	21.216	51.140	1.00 18.36	č
ATOM	6772	CB			400	14.078	21.510	50.338		
ATOM	6774		VAL						1.00 18.34	C
						15.057	22.361	51.158	1.00 17.60	C
MOTA	6778				400	14.805	20.218	49.978	1.00 18.78	C
ATOM	6782	С			400	12.126	22.509	51.633	1.00 19.10	. C
ATOM	6783	0	VAL	В	400	12.266	22.901	52.793	1.00 18.63	0
ATOM	6784	N			401	11.363	23.137	50.752	1.00 19.95	N
ATOM	6786	CA			401	10.660	24.396	51.040	1.00 20.81	Č
ATOM	6788	CB			401	9.980	24.887	49.769	1.00 20.61	C
				_		J. J. J. J		47.103	T.00 ZI.04	C

ATOM	6791	CG	GLU B	401		0 504	06 004				
ATOM	6794	CD	GLU B			9.504	26.324	49.799		27.75	
ATOM	6795	OE1				10.501	27.293	49.155	1.00	36.68	
ATOM	6796					10.588	28.481		1.00	38.68	
ATOM		OE2				11.197	26.868	48.179	1.00	41.81	
	6797	С	GLU B		•	9.629	24.230	52.155		19.84	
ATOM	6798	0	GLU B			9.589	25.014	53.106	1.00	18.68	
ATOM	6799	N	ALA B			8.838	23.157	52.064		19.81	
ATOM	6801	CA	ALA B			7.834	22.859	53.078		19.56	
ATOM	6803	CB	ALA B			6.939	21.709	52.631		19.65	
MOTA	6807	C	ALA B	402		8.477	22.517	54.406	1 00	19.45	
ATOM	6808	0	ALA B	402		7.937	22.861	55.450		19.63	
ATOM	6809	N	LEU B	403		9.602	21.803	54.382			
MOTA	6811	CA	LEU B			10.291	21.515	55.623		18.88	
ATOM	6813	CB	LEU B			11.403	20.485	55.442	1.00	18.91	
ATOM	6816	CG	LEU B			12.064	19.983		1.00	18.51	
ATOM	6818	CD1	LEU B			11.007	19.509	56.718		17.83	
ATOM	6822		LEU B	403		13.053		57.721		17.29	
ATOM	6826	C	LEU B				18.855	56.391		17.18	
ATOM	6827	ŏ	LEU B			10.864	22.799	56.222	1.00	19.30	-
ATOM	6828	N	LEU B			10.836	22.962	57.445		19.32	
ATOM	6830	CA	LEU B			11.349	23.710	55.385		18.83	
ATOM	6832	CB	LEU B			11.908	24.971	55.893		19.83	
ATOM	6835	CG				12.582	25.758	54.769		19.82	
ATOM	6837		LEU B			13.162	27.133	55.082	1.00	21.43	
ATOM		CD1	LEU B			14.160	27.114	56.223	1.00	21.67	
ATOM	6841	CD2				13.827	27.664	53.830		23.49	
ATOM	6845	С	LEU B			10.814	25.826	56.544	1.00	20.14	
	6846	0	LEU B			10.966	26.280	57.675		19.85	
ATOM	6847	N 	SER B			9.711	26.025	55.824	1.00		
ATOM	6849	CA	SER B			8.570	26.776	56.344		21.10	
ATOM	6851	CB		405		7.494	26.874	55.286	1.00	20.99	
ATOM	6854	OG	SER B			7.940	27.728	54.257	1.00	22.98	
ATOM	6856	С	SER B			7.968	26.162	57.598		21.36	
ATOM	6857	0		405		7.627	26.881	58.513		20.94	
ATOM	6858	N		406		7.848	24.832	57.629		21.51	
ATOM.	6860	CA		406		7.295	24.124	58.776		21.53	
ATOM	6862	CB	TYR B	406		7.098	22.638	58.440	1 00	22.05	
ATOM	6865	CG		406		6.431	21.844	59.542	1 00	23.67	
ATOM	6866	CD1	TYR B	406		5.043	21.693	59.585		24.99	
MOTA	6868	CE1	TYR B	406		4.432	20.986	60.609		25.66	
ATOM	6870	CZ	TYR B	406		5.221	20.429	61.607		26.80	
ATOM	6871	OH .	TYR B	406		4.665	19.720	62.646			
ATOM	6873	CE2		406		6.597	20.568	61.566		26.38	
ATOM	6875	CD2	TYR B	406		7.187	21.268	60.546	1.00	26.07	
ATOM	6877	C	TYR B	406		8.160	24.280	60.035		24.46	
ATOM	6878	0	TYR B			7.628	24.611	61.082	1.00	21.46	
ATOM	6879	N	THR B			9.479	24.056	59.935	1.00	20.76	
ATOM	6881	CA	THR B			10.380	24.170	61.104		22.12	
ATOM	6883	CB	THR B			11.845	23.693	60.845		22.52	
MOTA	6885	OG1	THR B	407		12.375	24.291	59.659		22.07	
ATOM	6887	CG2	THR B	407		11.918	22.218			21.27	
ATOM	6891	C	THR B			10.423	25.587	60.585		21.87	
MOTA	6892	0	THR B			10.545	25.776	61.628		23.40	
ATOM .	6893	N	ARG B			10.318		62.818	1.00		
ATOM	6895	CA	ARG B				26.566	60.730	1.00		
ATOM	6897	CB	ARG B			10.251	27.989	61.095	1.00		
ATOM	6900	CG	ARG B			10.133	28.857	59.849	1.00		
ATOM	6903	CD	ARG B			11.422	29.169	59.213	1.00		
ATOM	6906	NE	ARG B			11.316	30.145	58.080	1.00		
ATOM	6908	CZ	ARG B			12.639	30.395	57.520	1.00		
ATOM	6909		ARG B	400		12.875	30.989	56.355	1.00		
ATOM	6912	MIN	ALG D	400		11.870	31.415	55.590	1.00		
		TATIT	ARG B	408		14.138	31.162	55.955	1.00	41.20	

ATOM	6915	С	ARG E	3 4	08		9.046	28.312	61.947	1.00			С
ATOM	6916		ARG I		08		9.115	29.145	62.856	1.00	26.25		0
ATOM	6917		ILE H		09		7.925	27.687	61.596	1.00	27.89		N
ATOM	6919		ILE E		09		6.657	27.927	62.273	1.00	28.59		С
ATOM	6921	CB	ILE I		09		5.500	27.609	61.305	1.00	28.57		С
ATOM	6923		ILE I		09		5.513	28.615	60.148	1.00	27.22		С
ATOM	6926		ILE !		09		4.730	28.171	58.934	1.00	27.40		С
ATOM	6930				09		4.154	27.569	62.041	1.00	28.50		С
ATOM	6934	C	ILE		09		6.551	27.138	63.583	1.00	29.57		С
ATOM	6935	ō	ILE :				5.997	27.639	64.549	1.00	30.01		0
ATOM	6936	N	LYS				7.121	25.939	63.631	1.00	30.86		N
ATOM	6938	CA	LYS		10		6.988	25.066	64.797	1.00	32.21		С
ATOM	6940	CB	LYS				7.166		64.418	1.00	32.45		C
ATOM	6943	CG	LYS		10		8.221	22.814	65.260	1.00	33.99		С.
MOTA	6946	CD	LYS		110		8.114	21.286	65.125		34.20		С
ATOM	6949	CE	LYS				8.522	20.586	66.421	1.00	35.09		С
ATOM	6952	NZ	LYS		110		8.397	19.084	66.286	1.00	36.30		N
ATOM	6956	С	LYS		110		7.941	25.437	65.930		33.27		С
ATOM	6957	0	LYS		110		7.521	25.534	67.095	1.00	33.79		0
ATOM	6958	N	ARG	В 4	111		9.222	25.606	65.609		34.33		N
ATOM	6960	CA	ARG	B 4	411		10.206	26.083	66.585		35.18		С
ATOM	6962	CB	ARG	B 4	411		11.248	25.004	66.924		35.80		С
MOTA	6965	CG	ARG	B 4	411		10.683	23.741	67.611		38.53		С
MOTA	6968	CD	ARG	B 4	411		10.853	23.665	69.160		42.62		С
ATOM	6971	NE	ARG	В 4	411		11.101	22.280	69.612		46.02		N
MOTA	6973	CZ	ARG	В	411		12.300	21.662	69.621		47.66		С
ATOM	6974	NH1	ARG	В	411		13.408	22.293	69.223		48.31		N
ATOM	6977	NH2	ARG	В	411	•	12.393	20.401	70.043	1.00			N
ATOM	6980	С	ARG				10.872	27.325	66.019	1.00			C
MOTA	6981	0	ARG	В	411		11.978	27.258	65.483		34.95		0
MOTA	6982	N	PRO		412		10.201	28.469	66.141		35.00		N
MOTA	6983	CA	PRO				10.704	29.715	65.549		34.89		C
MOTA	6985	CB	PRO		412		9.532	30.689	65.734	1.00			C
MOTA	6988	CG	PRO		412		8.753	30.151	66.866		34.16		C
MOTA	6991	CD	PRO		412		8.924	28.675	66.855	1.00			C
MOTA	6994	С	PRO		412		11.961	30.253	66.217	1.00			C
MOTA	6995	0	PRO		412		12.562	31.173	65.662	1.00			N
ATOM	6996	N			413		12.345	29.710	67.373		35.40		C
ATOM	6998	CA	GLN		413		13.527	30.198	68.087		35.71 35.93		C
MOTA	7000	CB	GLN		413		13.146	30.691	69.495	1.00			Č
MOTA	7003	CG	GLN		413		12.139	31.862	69.503		36.43		C
MOTA	7006	CD	GLN		413		12.742	33.189	69.037	1.00	37.27 37.13		Ö
MOTA	7007	OE1			413		12.480	33.649	67.918		38.43		N
MOTA	7008		GLN				13.538	33.812	69.901				C
ATOM	7011	C			413		14.677	29.183 29.438	68.151 68.820		35.33		ŏ
ATOM	7012	0			413		15.675 14.544		67.461		34.73		N
ATOM	7013	N			414		15.691		67.172		34.14	•	Ĉ
ATOM	7015	CA			414 414		15.466		67.632		34.43		č
MOTA	7017	CB			414		16.752				35.47		č
MOTA	7020 7021	CG	ASP 1 ASP				17.799				36.59		. 0
ATOM			2 ASP				16.822		68.025		37.73		Ö
ATOM	7022 7023	C CD			414		15.953				32.85		Č
MOTA MOTA	7023	Ö			414		15.444				33.10		ō
ATOM	7024				415		16.767				31.49		N
ATOM	7023				415		17.013				30.71		C
ATOM	7027				415		17.546				31.50		C
ATOM	7023				415		17.044				33.44		C
ATOM	7032				415		17.412				35.70	-	C
ATOM	7036		1 GLN				16.661				37.83		O
ATOM	7037		2 GLN				18.568				35.86		N

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MOTA	7040	С	GLN :	В	415		17.974	27.209	63.234	1.00	28.90		Ċ
MOTA	7041	0	GLN :	В	415		18.068	27.069	62.026	1.00 2	29.27		0
ATOM	7042	N	LEU :	В	416	•	18.673	26.474	64.084	1.00			. N
ATOM	7044	CA	LEU	В	416		19.594	25.440	63.609	1.00		-	Ċ
ATOM	7046	CB	LEU				20.804	25.382	64.523		27.08 ·		č
ATOM	7049	CG	LEU				21.479	26.755	64.628	1.00			c
ATOM													
	7051		LEU				22.711	26.643	65.452	1.00			C
ATOM	7055		LEU				21.777	27.334	63.233	1.00			C
ATOM	7059	Ç	LEU				18.987	24.057	63.457	1.00			C.
MOTA	7060	0	LEU				19.645	23.137	63.022	1.00			0
ATOM	7061	N	ARG	В	417		17.714	23.921	63.787	1.00	25.89		N
ATOM	7063	CA	ARG	В	417		16.989	22.667	63.651	1.00			, C
ATOM	7065	CB	ARG	В	417		15.575	22.910	64.168	1.00			C
ATOM	7068	CG	ARG				14.766	21.716	64.424	1.00			č
ATOM	7071	CD	ARG				13.277	22.075	64.739	1.00			č
MOTA	7074	NE	ARG				12.437	20.881	64.733	1.00			N
ATOM	7076	CZ	ARG				12.598					-	- 11
								19.893	65.587	1.00		•	C
ATOM	7077		ARG				13.490	19.983	66.568	1.00		•	N
ATOM	7080		ARG				11.841	18.821	65.488	1.00	30.77		N
MOTA	7083	С	ARG				16.901	22.186	62.222	1.00	23.66		C
ATOM.	7084	0	ARG				17.168	21.022	61.917	1.00	23.62		0
MOTA	7085	N	PHE	В	418		16.485	23.075	61.338	1.00	22.27		N
MOTA	7087	CA	PHE	В	418		16.391	22.744	59.925	1.00	21.50		С
ATÓM	7089	CB	PHE	В	418		15.839	23.936	59.155	1.00	21.21		С
ATOM	7092	CG	PHE	В	418	•	15.686	23.696	57.702	1.00	20.80		Ċ
MOTA	7093	CD1	PHE				14.794	22.782	57.238	1.00	21.20		Č
ATOM	7095		PHE			•	14.651	22.553	55.888		22.26		Č
ATOM	7097	CZ	PHE				15.364	23.256	54.991		21.03		č
ATOM	7099		PHE				16.253	24.168	55.426		25.19		Č
ATOM	7101		PHE				16.416	24.399	56.792		24.41		Č
ATOM	7103	C	PHE				17.735	22.214	59.338		21.50		Č
ATOM	7103	Õ	PHE				17.777	21.092	58.865		21.30		ζ.
ATOM	7104									1.00	20.74		U .
		N	PRO				18.829	22.985	59.385		22.15		N
ATOM	7106	CA	PRO				20.128	22.466	58.932		22.23		C
ATOM	7108	CB	PRO				21.079	23.640	59.163		22.29		С
MOTA	7111	CG	PRO				20.393	24.554	60.075		22.23		С
MOTA	7114	CD	PRO		419		18.937	24.383	59.853	,1.00	21.84		С
ATOM	7117	С	PRO		419		20.627	21.220	59.697		22.91		C
ATOM	7118	0	PRO				21.330	20.411	59.094	1.00	23.03		
ATOM	7119	N	ARG	В	420		20.300	21.073	60.977		22.72		N
MOTA	7121	CA	ARG		420		20.613	19.845	61.697	1.00	23.79		C
ATOM	7123	CB	ARG	В	420		20.217	19.957	63.165	1.00	24.37		C
MOTA	7126	CG	ARG	В	420		21.273	20.495	64.065	1.00	26.49		С
ATOM	7129	CD	ARG	В	420		20.780	20.749	65.509	1.00	29.34		20000
ATOM	7132	NE	ARG	В	420		21.635			1.00	31.75		N
MOTA	7134	CZ			420		21.210	22.758	66.920		34.22		Ċ.
MOTA	7135		ARG				19.905	22.942	67.170		35.33		N
MOTA	7138		ARG				22.105	23.606	67.434		33.74		N
MOTA	7141	C			420		19.881	18.623	61.109		23.97		C
ATOM	7142	Ö			420			17.540					
							20.459		61.041		23.43		0
ATOM	7143	N			421		18.622	18.791	60.702		24.27	•	, N
MOTA	7145	CA			421		17.877	17.700	60.048		25.13		C
ATOM	7147	CB			421		16.444	18.107	59.705		25.14		C
ATOM	7150	CG			421		15.556	18.134	60.884		26.83		C
ATOM	7153	SD			421		14.022	18.916	60.489		27.49		S
ATOM	7154	CE			421		13.280	17.711	59.650		28.40	•	С
ATOM	7158	С			421		18.513	17.288	58.750	1.00	25.25		С
ATOM	7159	0			421		18.675	16.104	58.484	1.00	25.17		0
MOTA	7160	N			422		18.826	18.266	57.909		25.68		N
ATOM	7162	CA			422		19.499	17.966	56.641		25.80		С
MOTA	7164	CB			422		19.649	19.214	55.778		26.08		Ċ

	ATOM	7167	CG	LEU	В	422	18.371	19.948	55.399	1.00 27	. 05	С
	MOTA	7169		LEU			18.758	21.190	54.647	1.00 27		Č
	MOTA	7173	CD2	LEU	В	422	17.481	19.094	54.564	1.00 28		Ċ
	ATOM	7177	С	LEU	В	422	20.889	17.373	56.870	1.00 24		Č
	ATOM	7178	0	LEU	В	422	21.352	16.604	56.048	1.00 25		ō
	MOTA	7179	N	MET	В	423	21.554	17.700	57.972	1.00 23		N
	ATOM	7181	CA	MET	В	423	22.857	17.078	58.231	1.00 24		C
	MOTA	7183	CB	MET	В	423	23.519	17.564	59.514	1.00 24		č
	ATOM	7186	CG	MET	В	423	24.207	18.886	59.485	1.00 28		Č
	MOTA	7189	SD	MET	В	423	25.144	19.334	58.028	1.00 33		s
	MOTA	7190	CE	MET	В	423	25.917	20.670	58.720	1.00 30		c
	MOTA	7194	C	MET	В	423	22.688	15.578	58.382	1.00 22		Č
	MOTA	7195	0	MET	В	423	23.639	14.832	58.146	1.00 23		ō
	MOTA	7196	N	LYS	В	424	21.501	15.157	58.837	1.00 23		N
	MOTA	7198	CA	LYS	В	424	21.198	13.751	59.030	1.00 2		C
	MOTA	7200	CB	LYS	В	424	19.915	13.552	59.845	1.00 2		C
	ATOM	7203	CG [*]	LYS	В	424	20.021	14.054	61.302	1.00 22	2.33	C
	MOTA	7206	CD	LYS	В	424	21.060	13.262	62.112	1.00 24		C
	ATOM	7209	CE	LYS	В	424	21.305	13.866	63.503	1.00 20		C
	ATOM	7212	NZ	LYS	В	424	22.298	14.993	63.495	1.00 2	7.45	N
	MOTA	7216	C	LYS			21.140	13.023	57.710	1.00 20	0.91	С
	MOTA	7217	0	LYS			21.461	11.842	57.650	1.00 2	1.03	0
	MOTA	7218	N	LEU			20.757	13.717	56.641	1.00 20		N
	MOTA	7220	CA	LEU			20.877	13.152	55.302	1.00 20	0.64	C
	MOTA	7222	CB	LEU		425	20.345	14.103	54.247	1.00 20	0.69	С
	MOTA	7225	CG	LEU			18.873	14.438	54.379	1.00 2	1.19	С
	MOTA	7227		LEU			18.494	15.237	53.200	1.00 2		С
	ATOM	7231		LEU			18.054	13.190	54.443	1.00 2		С
	ATOM	7235	C	LEU			22.320	12.775	54.954	1.00 1		С
	MOTA	7236	0	LEU			22.560	11.793	54.253	1.00 2		0
	ATOM	7237	N	VAL			23.252	13.576	55.444	1.00 1		N
	MOTA	7239	CA	VAL			24.673	13.325	55.277	1.00 1		C
	ATOM	7241	CB	VAL			25.562	14.481	55.830	1.00 1		С
	ATOM	7243	CG1			426	26.999	14.281	55.417	1.00 1		C
	ATOM	7247	CG2				25.088	15.835	55.310	1.00 1		C
	ATOM	7251	C	VAL		426	25.066	12.056	55.990	1.00 1		С
	ATOM	7252	0	VAL			25.722	11.216	55.391	1.00 1		0
	MOTA	7253	N			427	24.707	11.934	57.275	1.00 1		N
	ATOM ATOM	7255 7257	CA			427	25.032	10.747	58.062	1.00 1		C
	ATOM	7260	CB OG			427 427	24.455	10.833	59.463	1.00 1		C
	ATOM	7262	C			427	25.035	11.881	60.182	1.00 1		0
	ATOM	7263	o			427	24.495 25.180	9.495 8.487	57.412	1.00 1		C
	ATOM	7264	N			428	23.180	9.573	57.394 56.843			0
	ATOM	7266	CA			428	22.650			1.00 1		N
	ATOM	7268	CB			428	21.240	8.419 8.758	56.207 55.753	1.00 1		C
	ATOM	7271	CG			428	20.127	8.747	56.783	1.00 2		C
	ATOM	7273		LEU			18.833	9.315	56.137	1.00 2		C
	ATOM	7277		LEU			19.876	7.349	57.324	1.00 2		c
	MOTA	7281	C			428	23.433	7.870	55.018	1.00 2		C
	ATOM	7282	ŏ			428	23.358	6.662	54.739	1.00 2		Ö
	ATOM	7283	N			429	24.149	8.726	54.293	1.00 2		N
	ATOM	7285	CA			429	25.036	8.240	53.239	1.00 2		C
	ATOM	7287	CB			429	25.705	9.366	52.453	1.00 2		C
	MOTA	7290	CG			429	24.825	10.054	51.493	1.00 2		Č
	MOTA	7293	CD			429	23.955	9.170	50.625	1.00 2		Č
	ATOM	7296	NE			429	22.978	10.041	50.001	1.00 2		N
•	MOTA	7298	CZ			429	23.105	10.605	48.806	1.00 2		Ĉ
	MOTA	7299		ARG			24.158	10.373	48.037	1.00 2		N
	MOTA	7302		ARG			22.125	11.385	48.368	1.00 2		N
	ATOM	7305	С			429	26.138	7.361	53.752	1.00 2		C
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ATOM	7424	CA	GLN B	438	27.514 -	-5.770	56.196	1.00 2	7 10	•	_
ATOM	7426	CB	GLN B			-5.220	57.085	1.00 2			C
ATOM	7429	CG	GLN B			6.296	57.699	1.00 2			C
ATOM	7432	CD	GLN B			-7.186	58.720	1.00 2			č
ATOM	7433	OE1	GLN B			-6.854	59.897	1.00 2			ŏ
ATOM	7434		GLN B			-8.314	58.274	1.00 2			Ŋ
ATOM	7437	C	GLN B			-6.821	55.197	1.00 2			C
ATOM	7438	Ō	GLN B			-8.001	55.372	1.00 2			ŏ
ATOM	7439	N	VAL B			-6.403	54.131	1.00 2			N
ATOM	7441	CA	VAL E			-7.393	53.170	1.00 2			C.
ATOM	7443	СВ	VAL E			-6.897	52.113	1.00 2			c
ATOM	7445		VAL E			-5.589	52.495	1.00 2			č
MOTA	7449	CG2				-6.905	50.676	1.00 2			Č
ATOM	7453	С	VAL E			-8.103	52.487		8.78		Č
ATOM	7454	Ō	VAL E			-9.259	52.125	1.00 2			ŏ
ATOM	7455	N	PHE E			-7.410	52.360	1.00 2			N
MOTA	7457	CA	PHE E			-7.982	51.740		30.18		C
ATOM	7459	CB	PHE E	3 440		-6.877	51.390	1.00 3			Ċ
ATOM	7462	CG	PHE E	3 440		-7.398	50.836	1.00 3		•	C
MOTA	7463	CD1	PHE E	3 440		-7.513	49.466	1.00 3			C
MOTA	7465	CE1	PHE E	3 440	32.979 -	-8.019	48.956	1.00 3	31.90		C
MOTA	7467	CZ	PHE E	3 440	33.998 -	-8.423	49.821	1.00 3	32.17		С
MOTA	7469		PHE E		33.824 -	-8.319	51.191	1.00 3	32.21		С
MOTA	7471	CD2	PHE E			-7.803	51.696	1.00 3	31.85		C
MOTA	7473	С	PHE E		29.913 -	-9.048	52.662	1.00 3	30.53		С
MOTA	7474	0	PHE E			10.100	52.195	1.00 3	30.16		0
MOTA	7475	N	ALA E			-8.772	53.968	1.00 3	31.12		N
MOTA	7477	CA	ALA E			-9.745	54.974	1.00 3	31.30		С
MOTA	7479	CB	ALA E			-9.105	56.343	1.00 3	31.11		С
MOTA	7483	С	ALA E		29.391 -		54.995	1.00 3			С
MOTA	7484	0	ALA E		29.800 -		55.385	1.00 3			0
MOTA	7485	N	LEU E		28.142 -		54.589	1.00 3			N
MOTA	7487	CA	LEU E		27.205 -		54.477	1.00 3			C
MOTA	7489	СВ	LEU E		25.758 -:		54.314	1.00 3			C
ATOM	7492	CG	LEU E		25.202 -		55.521	1.00 3			С
ATOM	7494		LEU E		23.829 -		55.218		34.88		C
ATOM	7498	CD2			25.123 -		56.737	1.00 3		•	C
MOTA	7502	C	LEU F		27.593 -		53.332	1.00 3			C
ATOM	7503	0	LEU E		27.529 -		53.490		34.28		0
MOTA	7504	N	ARG E		28.002 -		52.198	1.00 3			N
MOTA MOTA	7506 7508	CA CB	ARG I		28.464 -		51.053	1.00 3			C
ATOM	7511	CG	ARG I		28.733 -		49.852		37.27		C
MOTA	7514	CD	ARG I		29.850 -1 29.495 -1		48.893 47.393	1.00 3			C
ATOM	7517	NE	ARG I		30.402 -		46.604	1.00 4	–		_
MOTA	7519	CZ	ARG I		30.348 -		45.277	1.00 4			N C
ATOM	7520		ARG I		29.428 -		44.544	1.00 4			N
MOTA	7523	NH2	ARG I	3 443	31.225 -		44.677	1.00 4			N
ATOM	7526	С	ARG I		29.694 -		51.446	1.00			C
ATOM	7527	ō		3 443	29.792 -		51.073	1.00 3			ŏ
ATOM	7528	N	LEU I		30.601 -		52.229	1.00 3			N
MOTA	7530	CA	LEU I		31.804 -		52.703	1.00			C
MOTA	7532	CB	LEU I		32.823 -		53.309	1.00			Č
ATOM	7535	CG	LEU I		33.483 -		52.437	1.00			č
MOTA	7537	CD1	LEU I	3 444	34.650 -		53.198	1.00			Č
ATOM	7541		LEU I	3 444	33.967 -		51.093	1.00			č
MOTA	7545	С	LEU I	3 444	31.501 -		53.743	1.00			Č
ATOM	7546	0		3 444	32.320 -		53.946	1.00			0
ATOM	7547	N		3 445	30.351 -		54.417	1.00			N
ATOM	7549	CA		3 445	29.935 -		55.421	1.00	39.48		C
MOTA	7551_	–CB–	_GLN_1	3_445_	29.267 -	<u>15.317</u>	<u>56.630</u>	1.00	39.67		С

ATOM	7554		GLN					-14.414	57.476	1.00	40.48			C
MOTA	7557		GLN					-13.280	58.152		41.27			С
ATOM	7558		GLN					-13.508	58.721	1.00	41.73			0
ATOM	7559		GLN					-12.062	58.079		41.86			N
MOTA	7562		GLN					-17.022	54.846		39.62			С
ATOM .	7563		GLN					-17.953	55.549		39.83			0
MOTA	7564		ASP					-16.856	53.583		39.69			N
MOTA	7566		ASP					-17.775	52.926		39.90			C
ATOM	7568		ASP					-19.220	52.986		40.14			C.
ATOM	7571		ASP					-20.064	51.805		40.55			С
MOTA	7572		ASP					-19.486	50.812		40.10			0
MOTA	7573		ASP					-21.315	51.786		41.94			0
MOTA	7574	C	ASP					-17.699	53.518		39.64			C
ATOM	7575	0	ASP					-18.697	53.549		39.62			0
MOTA	7576	N	LYS					-16.507	53.985		39.29			N
MOTA	7578	CA	LYS					-16.198	54.428		38.85			C
ATOM	7580	CB	LYS					-15.369	55.721		38.99			· C
ATOM	7583	CG	LYS					-15.927	56.749		39.99			C
ATOM	7586	CD	LYS		447			-15.482	58.201		40.92	•		C
ATOM	7589	CE	LYS					-16.391	59.168		41.86		•	Ċ
ATOM	7592	NZ	LYS					-15.812	60.527		42.16			N
MOTA	7596	C	LYS					-15.440	53.284		38.09			C
ATOM	7597	0	LYS					-14.348	52.921		38.31			0
ATOM ATOM	. 7598 7600	N	LYS					-16.044	52.679		37.06	•		N
ATOM	7602	CA CB	LYS LYS		448			-15.429	51.555		36.00			C
ATOM	7602	CG	LYS		448			-16.482	50.523 49.867		36.12			C.
ATOM	7608	CD	FAS.					-17.241 -16.366	49.867		36.81			C
ATOM	7611	CE	LYS					-16.967	48.656		37.64			C
ATOM	7614	NZ	LYS					-16.218	49.345		38.58			C
ATOM	7618	C	LYS					-14.660	52.071		34.89			N C
ATOM	7619	0			448			-15.040	53.082					0
ATOM	7620	N	LEU					-13.560	51.386		34.58 33.41			
ATOM	7622	CA	LEU		449			-12.786	51.648		32.25			C.
ATOM	7624	CB	LEU		449			-11.327	51.260		31.84			č
ATOM	7627	CG	LEU		449			-10.552	52.087		30.08			č
ATOM	7629		LEU				834	-9.203	51.465		29.32			č
MOTA	7633		LEU					-10.419	53.526		28.15			č
ATOM	7637	С	LEU					-13.360	50.868		31.93			Č
MOTA	7638	0	LEU	В	449			-14.044	49.860		31.97	•		0
ATOM	7639	N	PRO	В	450			-13.083	51.324	1.00	31.45			N
MOTA	7640	CA	PRO	В	450	15.	819	-13.504	50.585	1.00	31.01			C
MOTA	7642	CB	PRO	В	450	14.	675	-13.158	51.544	1.00	31.37			C
MOTA	7645	CG	PRO			15.	335	-12.895	52.857	1.00	31.77			C
ATOM	7648	CD	PRO					-12.322	52.536	1.00	31.42			C
ATOM	7651	С	PRO					-12.698	49.279	1.00	30.32			С
MOTA	7652	0	PRO					-11.544	49.270		29.65			0
MOTA	7653	N	PRO					-13.295	48.232		29.63			И
MOTA	7654	CA	PRO					-12.658	46.920		29.20			C
ATOM	7656	СВ	PRO					-13.496	46.298		29.78			С
ATOM	7659	CG	PRO					-14.923	46.803		29.58			. C
ATOM	7662	CD	PRO					-14.696	48.221		30.20			C
ATOM .	7665	C	PRO					-11.154	46.846		28.57			C
MOTA	7666	O N			451			-10.462	46.118		28.26			0
ATOM ATOM	7667 7669	N			452			-10.650	47.552		27.85			N
	7669	CA			452		300	-9.222	47.473		27.84			C
ATOM ATOM	7671 7674	CB			452		015 493	-8.872	48.232		27.62			C
ATOM	7676	CG CD1			452			-7.431	48.108		28.13			C
ATOM	7680		LEU				753 575	~7.168 ~7.000	46.780		28.76			C
ATOM	7684	CD2			452		489	-7.090	49.262		28.05			. C
111011	, 504	~	TE U	٥	402	14.	202	-8.373	47.979	1.00	27.83			C

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1	ATOM	7685	0	LEU	В	452	14.79	4	-7.336	47.399	1.00	27.31	0
	MOTA	7686	N	LEU			15.15	1	-8.816	49.054	1.00	27.69	N
	ATOM	7688	CA	LEU	В	453	16.28	9	-8.075	49.602	1.00	27.42	C
	ATOM	7690	CB	LEU	В	453	16.61	1	-8.523	51.042	1.00	27.10	C
	ATOM	7693	CG	LEU	В	453	15.44	7	-8.370	52.046	1.00	26.10	С
	MOTA	7695	CD1	LEU	В	453	15.92	8	-8.521	53.480	1.00	25.11	C
	ATOM	7699	CD2	LEU	В	453	14.70	5	-7.058	51.868	1.00	26.13	C
	ATOM	7703	С	LEU	В	453	17.51	.2	-8.215	48.710	1.00	27.66	С
	ATOM	7704	0	LEU			18.21	.3	-7.252	48.457	1.00	26.54	0
	ATOM	7705	N	SER	В	454	17.75	0	-9.423	48.230	1.00	28.50	N
	MOTA	7707	CA	SER	В	454	18.85	6	-9.680	47.317	1.00	29.60	C
	MOTA	7709	CB	SER	В	454	18.89	8	-11.151	46.927		29.24	C
	ATOM	7712	OG	SER	В	454			-11.551			28.29	ō
	ATOM	7714	С	SER	В	454	18.75	6	-8.833	46.058		30.98	C
	MOTA	7715	0	SER	В	454	19.73	88	-8.280	45.598		30.30	Ō
	ATOM	7716	N	GLU	В	455	17.54	16	-8.740	45.531		33.26	N
	ATOM	7718	CA	GLU	В	455	17.22	20	-7.905	44.371	1.00	35.66	C
	ATOM	7720	CB	GLU	В	455	15.70	7	-8.032	44.086		36.15	C
	MOTA	7723	CG	GLU			15.26	53	-7.623	42.691	1.00	39.50	С
	ATOM	7726	CD	GLU	В	455	13.84	12	-7.056	42.656		43.95	С
	ATOM	7727	OE1	GLU	В	455	13.64	12	-6.051	41.923	1.00	46.30	0
	ATOM	7728	OE2	GLU	В	455	12.92	26	-7.600	43.346	1.00	45.31	0
	MOTA	7729	С	GLU	В	455	17.62	8.	-6.399	44.504	1.00	36.35	C
	ATOM	7730	0	GLU	В	455	18.01	15	-5.782	43.514		36.57	0
	MOTA	7731	N	ILE	В	456	17.54	17	-5.820	45.705	1.00	37.41	N
	ATOM	7733	CA	ILE	В	456	17.87	70	-4.396	45.900		38.54	С
	MOTA	7735	CB	ILE	В	456	16.99	95	-3.754	46.989	1.00	39.45	С
	ATOM	7737	CG1	ILE	В	456	15.58		-4.278	46.966	1.00	41.19	С
	MOTA	7740	CD1	ILE	В	456	15.09	94	-4.432	48.349	1.00	43.54	С
	ATOM	7744	CG2	ILE	В	456	16.92	22	-2.233	46.842	1.00	40.69	С
	MOTA	7748	С	ILE	В	456	19.30	06	-4.145	46.321	1.00	38.55	С
	MOTA	7749	0			456	19.82	27	-3.078	46.049	1.00	39.13	0
	ATOM	7750	N			457	19.93	35	-5.098	46.997	1.00	38.56	N
	ATOM	7752	CA			457	21.18		-4.827	47.695	1.00	39.22	С
	ATOM	7754	CB			457	20.99	97	-5.016	49.196	1.00	38.75	C
	ATOM	7757	CG			457	20.0		-4.069	49.811	1.00	36.02	C
	ATOM	7758		TRP			19.84	15	-2.783	49.455	1.00	35.13	С
	MOTA	7760	NE1				18.89		-2.219	50.269	1.00	34.94	N
	ATOM	7762		TRP			18.50		-3.144	51.196	1.00	33.63	C
	ATOM	7763		TRP			19.22		-4.322	50.932	1.00	34.53	C
	MOTA	7764	CE3			457	18.99		-5.444	51.744		35.16	С
	MOTA	7766		TRP			18.0		-5.348	52.766		35.33	С
	ATOM	7768		TRP			17.3		-4.158	52.992		35.72	С
	ATOM	7770		TRP			17.58		-3.046	52.220		34.02	C
	MOTA	7772	С	TRP			22.40		-5.652			40.58	C
	ATOM	7.773	0			457	23.5		-5.234	47.550		40.81	0
	MOTA	7774	N			458	22.20		-6.829	46.703		42.46	N
	MOTA	7776	CA			458	23.3		-7.641	46.243		43.79	С
	MOTA	7778	CB			458	23.0		-9.140	46.277		43.86	С
	MOTA	7781	CG			458	23.0		-9.696	47.687		43.70	С
	ATOM	7782		ASP					-10.079	48.149		43.49	0
	ATOM	7783		ASP			22.0		-9.748	48.421		43.98	0
	MOTA	7784	C			458	23.7		-7.230	44.850		45.14	С
	MOTA	7785	0			458	22.9		-6.973	43.968		44.86	0
	MOTA	7786	N			459	25.0		-7.166	44.671		46.62	N
	MOTA	7788	CA			459	25.6		-6.828	43.382		47.79	С
	ATOM	7790	CB			459	27.1		-6.477	43.539		48.10	С
	ATOM	7792		VAL			27.7		-5.902	42.224		48.81	С
	MOTA	7796		VAL			27.3		-5.495	44.724		48.27	С
	ATOM	7800	Ç			459	25.4		-8.016	42.420		48.37	C
-	MOTA_	_7801_	_0	_VAL	_В	459	24.8	<u>79</u>	-7.851	41.330	1.00	48.63	0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7802 7804 7806 7810 7811 7812 7813 7814 7815 7818 7819	CA CB C O O37 C35 O36 C34 C32	ALA ALA ALA ALA GW3 GW3 GW3 GW3 GW3	B B B B B B B B B B B B B	460 460 460 500 500 500 500	24.120 26.087	-9:208 -10.453 -10.826 -10.381 -10.328 -1.467 -1.164 -0.832 -1.270 -1.306 -2.503	42.851 42.120 42.193 40.660 40.385 61.961 60.974 61.085 59.540 59.568 59.749	1.00 1.00 1.00 1.00 1.00	49.35		и с с с о о с о с с с
MOTA	7821	C31	GW3	В	500	10.702	-0.108	59.501	1.00	20.76		С
MOTA	7823		GW3 GW3			12.080	-0.101	59.610		21.26		C
ATOM ATOM	7825 7827		GW3			12.780 12.082	-1.289 -2.495	59.769 59.849		20.92 21.78		C
ATOM	7828		GW3			12.727	-3.692	60.010		21.70		ૅ
ATOM	7829		GW3			14.141	-3.775	60.164		20.96		c
ATOM	7832		GW3			14.455	-5.133	60.776		21.14		С
ATOM	7835		GW3			15.789		61.531		22.57		C
ATOM ATOM	7838 7839		GW3			16.988 17.042	-5.079 -5.980	60.713 59.567		22.62		N.
ATOM	7842		GW3			17.898	-5.643	58.368		28.24		C
MOTA	7843		GW3			18.894	-6.616	57.880		40.22		č
MOTA	7844		GW3			19.150	-8.190	58.729	1.00	52.37		CT.
MOTA	7845		GW3			17.728	-4.467	57.648		37.09		C
ATOM ATOM	7847 7849		GW3			18.495 19.460		56.512 56.039		37.81 38.98		C
ATOM	7851		GW3			19.688		56.678		41.52		C
ATOM	7852		GW3			20.729		56.180		43.09	·	č
MOTA	7853		GW3			21.793		56.983		43.65		F
MOTA	7854		GW3		500	21.077		54.925		42.94		F
ATOM ATOM	7855 7856		GW3 GW3			20.222 18.226		56.232		43.14		F
ATOM	7859		GW3		500	18.167		61.323 61.780		19.42 17.71		C
ATOM	7861		GW3			19.252		62.772		16.60		C.
ATOM	7862		GW3			20.534		62.647	1.00	18.23		C
ATOM	7864		GW3			21.531		63.593		17.02		C
ATOM ATOM	7866 7868		GW3 GW3			21.241 19.972		64.672 64.807		16.12 14.93		C
ATOM	7870		GW3			18.991		63.868		14.57		C
MOTA	7872		GW3			18.269		60.620		15.98		С
MOTA	7873		GW3			17.241		60.395		15.06		С
MOTA MOTA	7875 7877		GW3 GW3			17.289		59.333		15.36		C
ATOM	7879		GW3			18.370 19.398		58.464 58.689		16.16 16.09		C
MOTA	7881		GW3			19.359		59.771		13.56		Ċ
MOTA	7883	04	IOH	·B	501	. 6.727	4.693	56.348	1.00	41.79	•	Ο.
ATOM	7885	C2			501	6.928		54.955		38.97		000
ATOM ATOM	7887 7891	C3 C1			501 501	7.991 7.342		54.403 54.790		37.54 39.36		C
MOTA	7895				220		112.946	100.447		18.87		N
MOTA	7897				220	-1.866	113.110	101.401		19.26		C
ATOM .	78,99				220		113.749			19.49		С
ATOM	7902				220		112.935	99.763		19.18		C
ATOM ATOM	7904 7908		LEU				113.826 111.790	99.175		19.39 19.53		C
ATOM	7912				220	-2.326	113.981	102.564		19.20		c
MOTA	7913	0	LEU	С	220	-2.819	115.092	102.359	1.00	19.47		0
ATOM	7916				221		113.457			18.88		N
ATOM ATOM	7918 7920				221 221		3 114.224 5 113.325			18.78 18.57		C
	. , , ,	0.5			~ C L	~2.51		100.441	1.00	10.57		C

ATOM	7922	OG1	THR	С	221	-1.232	112.697	106.349	1.00	18.19		0
MOTA	7924	CG2			221	-3.513	112.156	106.089		17.48		č
ATOM	7928	С	THR	С	221	-1.479	115.313	105.169		18.66		č
MOTA	7929	0	THR	С	221	-0.394	115.246	104.605		18.69		ŏ
ATOM	7930	N	ALA	С	222	-1.800	116.290	106.002		18.45		N
MOTA	7932	CA	ALA	С	222	-0.899	117.404	106.259		18.07		c
MOTA	7934	CB	ALA	С	222		118.474			18.24		č
MOTA	7938	С			222		116.957			17.91		č
ATOM	7939	0	ALA	С	222	1.444	117.542	106.666		17.31		ŏ
MOTA	7940	N	ALA	С	223	0.319	115.933	107.784		17.90		N
ATOM	7942	CA	ALA	С	223		115.342			18.20		C
ATOM	7944	CB			223	1.130	114.368	109.535		18.08		Č
MOTA	7948	С	ALA	С	223		114.638			18.47		Č
MOTA	7949	0	ALA	С	223			107.479		19.33		ŏ
ATOM	7950	N	GLN	С	.224	1.826	114.003	106.367		18.54		И
ATOM	7952	CA	GLN	С	224	2.597	113.414	105.265		19.03		"c
MOTA	7954	CB	GLN	С	224	1.717	112.519	104.392		18.60		c
ATOM	7957	CG			224	1.353	111.229	105.093		18.65		Č
ATOM	7960	CD	GLN	С	224	0.474	110.329	104.247		18.87		č
MOTA	7961	OE1				-0.411	110.818	103.525		19.17		ŏ
ATOM	7962	NE2	GLN			0.727	109.009	104.309		16.75		И
MOTA	7965	С			224	3.262	114.483	104.407		19.01		C
ATOM	7966	0	GLN		224	4.418	114.355	104.064		19.36		0
ATOM	7967	N			225	2.532	115.530	104.067		19.27		И
ATOM	7969	CA			225	3.083	116.640	103.290		19.85		C
MOTA	7971	CB	GLU			1.989	117.665	102.986		19.94		c
ATOM	7974	CG			225	1.021	117.179	101.936		21.92		C
ATOM	7977	CD			225	0.001	118.231	101.523		25.61		c
MOTA	7978	OE1	GLU			-0.425	119.047	102.395		27.21		Ö
ATOM	7979	OE2			225	-0.399	118.223	100.323		26.40		ŏ
ATOM	7980	С	GLU				117.336			19.69		č
MOTA	7981	0	GLU		225	5.224	117.711	103.415		19.29		õ
ATOM	7982	N			226	4.052	117.513	105.328		19.81		И
ATOM	7984	CA	LEU				118.090			19.75		C
MOTA	7986	CB	LEU		226	4.534	118.129	107.649		19.32		č
ATOM	7989	CG			226	5.504	118.634	108.724		18.59		C
ATOM	7991	CD1	LEU		226	5.799	120.123	108.512		18.72		č
ATOM	7995	CD2	LEU	С	226	4.932	118.394		1.00			č
MOTA	7999	С			226	6.336	117.263	106.131		20.57		C
MOTA	8000	0	LEU				117.797			20.55		ŏ
MOTA	8001	N			227	6.202	115.956	106.272	1.00			N
MOTA	8003	CA	MET	С	227	7.380	115.097	106.323		23.14		C
MOTA	8005	CB	MET	С	227			106.940		23.60		č
MOTA	8008	CG	MET	С	227	6.822	112.605	105.948		29.90		č
ATOM	8011	SD			227		110.955			39.06		s
MOTA	8012	CE			227	5.699	111.169	107.969		38.81		c
ATOM	8016	С	MET	C	227	8.083	115.007	104.949		22.02		č
ATOM	8017	0	MET	С	227		115.057			22.38		ŏ
MOTA	8018	N			228	7.318	114.931	103.869		20.67		N
ATOM	8020	CA			228	7.885	114.908	102.516		19.93		C
ATOM	8022	CB			228	6.793	114.573	101.470		19.41		c
ATOM	8024		ILE	С	228	6.298	113.147	101.664		18.75		č
ATOM	8027	CD1	ILE	С	228	4.906	112.910	101.081		19.38		č
ATOM	8031	CG2	ILE	C	228		114.765			19.58		C
ATOM	8035	С			228	8.580	116.223	102.144		19.60		C
ATOM	8036	0			228	9.687	116.196	101.642		19.79		0
ATOM	8037	N			229	7.917	117.361	102.374		19.12		И
MOTA	8039	CA	GLN	С	229		118.681			18.52		C
MOTA	8041	СВ			229	7.466	119.810	102.366		18.93		c
ATOM	8044	CG			229	6.339	119.892	101.282		20.68		Č
 ATOM	8047	CD			229	5.131	120.826	101.661		23.87		C
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ATOM	8048	OFI	GLN	_	220	4 601 101 644		0 045				
ATOM	8049					4.691 121.64	TO	0.845		24.75		0
ATOM	8052		GLN			4.609 120.68	10	12.885		26.71		N
ATOM		C	GLN			9.738 118.890	10	3.042		17.73		С
•	8053	0	GLN			10.683 119.53	10	2.633		17.45		0
ATOM	8054	N	GLN			9.738 118.33	2 10	4.248	1.00	16.98		N·
ATOM ·	8056	CA	GLN			10.945 118.32	. 10	5.078		16.64		С
MOTA	8058	CB	GLN			10.707 117.55	3 10	6.391	1.00	16.42		.C
MOTA	8061	CG	GLN	С	230	11.836 117.68	10	7.371		15.46	•	C
ATOM	8064	,CD	GLN	С	230	11.893 119.02	10	8.013	1.00	14.19		Ċ
ATOM	8065					11.112 119.91	5 10	7.695		17.78		ō
ATOM	8066	NE2	GLN	С	230	12.827 119.19	10	8.917		19.79		N
ATOM	8069	С	GLN	С	230	12.143 117.66				16.24		. C
ATOM	8070	0			230					15.92		
ATOM	8071	N	LEU			11.918 116.48	10	3 805		15.98		N
ATOM	8073	CA			231	12.954 115.69	1 10	3.005		16.11		14
ATOM	8075	CB			231	12.411 114.32	1 10	12 601		16.41		٠,
ATOM	8078	CG	LEU			12.065 113.30	1 10	2.031				_ C
ATOM	8080		LEU			11.800 111.89	10	13.790		15.91		Ċ
ATOM	8084		LEU			13.170 113.25	10	73.219		15.15		C
ATOM	8088	C	LEU							17.22		С
ATOM	8089	0				13.485 116.430	1 10	11.942		16.02-		С
ATOM					231		) 10	1.726		16.40		_
	8090	N	VAL			12.591 117.04				16.32		
ATOM	8092	CA			232	12.930 117.67		9.924		15.86		Ċ
ATOM	8094	CB			232	11.656 117.98		9.145		15.91		C.
ATOM	8096		VAL			11.911 118.87		7.916	1.00	15.14		С
ATOM	8100		VAL			10.979 116.68		8.736	1.0.0	16.53		C
ATOM	8104	С			232	13.721 118.93	3 10	0.198	1.00	16.07		С
ATOM	8105	0			232	14.623 119.28		9.448	1.00	15.57		0
MOTA	8106	N	ALA	С	233	13.384 119.59	3 10	1.288	1.00	16.72		N
ATOM	8108	CA	ALA	С	233	13.974 120.88	7 10	1.599	1.00	17.30		C
ATOM	8110	CB	ALA	С	233	13.088 121.67	7 10	2.551		17.06		Č
	8114	С	ALA	С	233.	15.352 120.67	3 10	2.198		18.01		Č
ATOM	8115	0	ALA	С	233	16.247 121.47	10	1.957		18.07		0
ATOM	8116	N	ALA	С	234	15.511 119.60	3 10	2.978		18.89		N
ATOM	8118	CA	ALA	С	234	16.817 119.21	10	3.489		20.13		ä
MOTA	8120	CB	ALA	С	234	16.679 118.07				20.02		c
ATOM	8124	C			234	17.756 118.80	1.0	2.355		21.35		č
ATOM	8125	0			234	18.930 119.11	10	2.379		21.43		Ö
ATOM	8126	N			235	17.222 118.09	10	11 373		23.22		И
ATOM	8128	CA			235	17.988 117.63	10	00 218		24.76		C
ATOM	8130	CB			235	17.101 116.78		9.311		24.76		2
ATOM	8133	CG			235	17.864 115.90		98.363				C
ATOM	8136	CD			235	16.978 114.87		97.687		26.38		C
ATOM	8137		GLN			16.122 115.21		6.865		27.51		C
ATOM	8138		GLN			17.191 113.61				28.36		0
ATOM	8141	C	GI.N	Č	235	18.514 118.83		99.451		29.14		
ATOM	8142	Ö	GI.N	č	235	19.696 118.93				25.74		C
ATOM	8143	N			236			9.185		25.87		0
ATOM	8145	CA			236	17.620 119.77		9.140		27.09		N
MOTA	8147	CB				17.975 120.99		8.459		28.40		C
ATOM	8150				236	16.730 121.85		8.198		28.61		C
		CG			236	16.998 123.06		7.296		29.58		С
MOTA	8152		LEU			17.126 122.63		5.812		29.51		С
ATOM	8156		LEU			15.934 124.14		7.481		29.96		С
MOTA	8160	C			236	18.997 121.80		99.246		29.64		С
ATOM	8161	0			236	19.898 122.39		8.652		29.50		0
ATOM	8162	N			237	18.853 121.84				30.95		N
ATOM	8164	CA			237	19.717 122.65	7 10	01.421	1.00	32.29		С
ATOM	8166	CB			237	19.109 122.81	9 10	02.829	1.00	32.69		С
MOTA	8169	CG			237	18.026 123.91	1 10	2.926	1.00	34.37		C
ATOM	8172	CD			237	17.703 124.35	3 10	04.366		36.57		С
MOTA	8173	OE1	GLN	С	237	18.165 123.76	3 10	05.354	1.00	37.85		0

ATOM	8174	NE2	GLN	C	237		16.912	125 420	104.474	1 00	36.78	NT.	
ATOM	8177	C	GLN					122.042				N	
ATOM	8178										33.08	C	
		0	GLN					122.759			32.91	0	
ATOM	8179	. N	CYS					120.711			34.30	N	
MOTA	8181	CA	CYS					119.959			35.29	C	,
ATOM	8183	CB	CYS	С	238	:	22.130	118.495	102.050	1.00	35.18	С	
ATOM	8186	SG	CYS	С	238			118.233			36.28	s	
MOTA	8187	С	CYS					120.026			36.15	č	,
ATOM	8188	ŏ	CYS					120.020				0	
ATOM	8189		ASN								36.59	. 0	
		N						119.924	99.260		37.18	N	
MOTA	8191	CA	ASN					119.984	97.955		38.14	С	
MOTA	8193	CB	ASN					119.148	96.918		38.24	С	
ATOM	8196	CG	ASN	С	239		22.074	119.921	95.658	1.00	39.13	C	1
ATOM	8197	OD1	ASN	С	239		20.957	120.427	95.500	1.00	39.88		
ATOM	8198	ND2	ASN	С	239		23.046	120.017	94.748	1.00	39.76	N	Į
ATOM	8201	C.	ASN					121.448			38.61		c
ATOM	8202	o .	ASN					121.689	96.666		38.64	^	Č
ATOM	8203	N	LYS		240			122.411	98.070			0	
											39.15	N	J
ATOM	8205	CA	LYS					123.841	97.901		39.51	C	
MOTA	8207	CB	LYS					124.704			39.54	С	
MOTA	8210	CG	LYS		240			126.215	98.547		39.40	C	:
MOTA	8213	CD	LYS					126.934	99.298	1.00	39.36	С	;
MOTA	8216	CE	LYS	С	240		21.499	127.786	100.484		39.27	C	:
ATOM	8219	NZ	LYS	С	240			129.051			37.35	N	j
. ATOM	8223	С			240			124.188	98.681		39.89		•
MOTA	8224	ō			240			125.136			39.84		
ATOM	8225	N			241			123.397					
ATOM	8227	CA									40.30	N	•
			ARG					123.575			40.69	C	
ATOM	8229	CB			241		25.636	122.759	101.864		40.77	C	;
ATOM	8232	CG			241		26.249	123.401	103.111		41.52	C	:
ATOM	8235	CD	ARG	С	241		25.525	123.062	104.433	1.00	42.15	C	;
MOTA	8238	NE	ARG	С	241		24.353	123.917	104.653	1.00	43.09	N	Į
ATOM	8240	CZ	ARG	C	241		24.387	125.216	104.988		44.14	_	
ATOM	8241	NH1	ARG				25.543	125.864	105.164		44.34	N	3
ATOM	8244		ARG					125.881			44.22	N.	ĭ
ATOM	8247	С			241			123.201			40.77	1	
ATOM	8248	ŏ			241			123.438				N - C	
							20.10/	123.436			40.80		
ATOM	8249	N			242			122.620	98.668		41.06	N	
ATOM	8251	CA			242			122.219			41.04	C	;
MOTA	8253	CB			242			120.723		1.00	41.11	C	:
ATOM	8256	OG			242		27.716	120.028	98.761	1.00	40.52	C	)
MOTA	8258	С	SER	С	242		28.383	122.981	96.559	1.00	41.14	C	
ATOM	8259	0	SER	С	242		29.381	122.784	95.860		41.28	C	)
MOTA	8260	N	PHE	С	243		27.417	123.831	96.210		41.19	N	3
ATOM	8262	CA			243			124.812			41.30	0 0 0 0 0	÷
ATOM	8264	CB			243			125.665	94.910		41.49	_	-
ATOM	8267	CG			243			124.930				C	ί.
MOTA	8268		PHE								42.57	C	-
								123.547	94.038		43.04	C	;
ATOM	8270		PHE					122.905	93.457		43.24	C	;
ATOM	8272	CZ			243			123.636	93.103		43.20	C	3
MOTA	8274		PHE					125.007	93.328	1.00	43.18	C	3
ATOM	8276	CD2	PHE	С	243		24.024	125.646	93.906	1.00	43.10	C	3
ATOM	8278	С	PHE	C	243		28.756	125.755	95.506		40.99	C	
MOTA	8279	0			243			126.199	94.635		41.16	Č	
MOTA	8280	N			244			126.054	96.805		40.55	N	
ATOM	8282	CA			244			126.034	97.349				
ATOM											40.11	C	
	8284	CB			244			127.581	98.681		40.14	C	
ATOM	8287	OG			244			126.642			40.31	C	
ATOM	8289	C			244			126.328	97.544		39.56	C	3
ATOM	8290	0			244			127.029			39.45	C	)
_ATOM	8291	_N	ASP	C	245		31.282	125.001	97.699	1.00	38.94	Ŋ	1
												· · · · · · · · · · · · · · · · · · ·	

MOTA	8293		ASP				124.242	97.862	1.00	38.34		С
MOTA	8295		ASP			32.282	122.993	98.732	1.00	38.29		С
MOTA	8298	CG	ASP	С	245	31.840	123.336	100.166	1.00	38.21		· C
MOTA	8299		ASP			32.144		100.661	1.00	37.96		Ο.
MOTA	8300		ASP					100.882		37.27		. 0
MOTA	8301	С	ASP				123.834	96.520	1.00	37.78		С
MOTA	8302	0	ASP				123.085	96.507		37.74		0
ATOM	8303	N	GLN		246		124.335	95.404		37.07		N
ATOM	8305	CA	GLN				124.045	94.069		36.48		C.
ATOM	8307	CB	GLN				124.531	92.973		36.56		С
MOTA	8310	CG	GLN		246		123.413	92.153	.1.00			С
MOTA	8313	CD	GLN				123.916	90.898		37.34		' . Č
ATOM	8314		GLN				124.698	90.133		37.73		0
MOTA	8315		GLN				123.468	90.684		36.99		N
MOTA	8318	C	GLN				124.624	93.789		35.79		· C
ATOM	8319	0	GLN				123.930	93.215		35.64		0
ATOM	8320	N	PRO				125.881	94.167		34.98	•	N,
MOTA	8321	CA	PRO				126.525	93.844		34.39	•	C
ATOM	8323	CB	PRO				128.005	94.218		34.46		C
ATOM	8326	CG	PRO				128.134	94.692		34.61		C
MOTA	8329	CD	PRO				126.776			34.91		C
ATOM ·	8332	C	PRO				125.961	94.581		33.70		C
MOTA	8333	0	PRO				126.285 125.159			33.73		0
ATÓM ATOM	8334 8336	N CA	LYS				123.139			32.78		N
ATOM	8338	CA CB	LYS				124.559			31.98		C
ATOM	8341	CG	LYS				124.964			31.98		C
MOTA	8344	CD	LYS				126.732			31.11		c
ATOM	8347	CE	LYS				128.051			31.01		Ċ
ATOM	8350	NZ	LYS				128.557			30.77		и
ATOM	8354	C			248		123.037			31.22		C
ATOM .		ŏ	LYS				122.320			31.21		Ö
ATOM	8356	N	VAL				122.567			30.37		N
ATOM	8358	CA	VAL				121.151			29.85		Ĉ
ATOM	8360	CB	VAL				120.514			29.80		č
MOTA	8362	CG1	VAL				119.038			29.53		,Ĉ
MOTA	8366		VAL				120.671			29.75		C
MOTA	8370	С	VAL	С	249	39.729	121.052			29.44		С
MOTA	8371	0			249	40.034	122.026	93.027	1.00	29.48		0
MOTA	8372	N			250	40.387	119.897		1.00	28.90	•	N
MOTA	8374	CA			250		119.664		1.00	28.57		С
MOTA	8376	CB			250	41.937	118.215	92.714	1.00,	28.56		C
MOTA	8378	OG1					118.016			28.79		U
MOTA	8380		THR				117.951			28.45		C
ATOM	8384	C			250		119.916			28.27		C
ATOM	8385	0			250		119.224			28.29		0
ATOM	8386	N			251		120.911			27.77		N
ATOM	8387	CA			251		121.209			27.44		C
ATOM	8389	CB			251		122.408			27.49		C
ATOM ATOM	8392 8395	CG CD			251 251		122.975 121.835			27.63		C
ATOM	8398	CD			251		121.033			27.77 27.10	•	C
ATOM	. 8399	Ö			251		119.563					C.
ATOM	8400	N	ממיז	Č	252		119.586			27.15 26.58		0
ATOM	8402	CA			252		118.400			26.32		N C
ATOM	8404	CB			252		118.429			26.32		C
ATOM	8407	CG			252		117.305			26.17		·C
ATOM	8408		TRP				117.394			26.45		Č
ATOM	8410		TRP				116.152			26.21		N
ATOM	8412		TRP				115.230			26.08		C
ATOM	8413		TRP				115.924			25.85		·C
				_								•

ATOM	8414	CE3	TRP	C	252	38.000	115.195	86.293	1 00	26.34		_
ATOM	8416		TRP				113.825	86.201	1.00	26.34		C
ATOM	8418		TRP				113.167		1.00	26.27		C
ATOM	8420	CZ2	TRP				113.851	84.962		26.42		C
ATOM	8422	C	TRP				118.218	83.803		26.19		С
ATOM	8423	ŏ	TRP					85.919	1.00	26.10		С
ATOM	8424						118.760	84.825		25.72		0
ATOM		N	ARG				110.592	85.368		20.90		N
	8426	CA	ARG				109.405	85.998		20.95		С
ATOM	8428	CB	ARG				108.170	85.664		21.07		С
ATOM	8431	CG	ARG				107.505	84.337		21.24		С
ATOM	8434	CD	ARG				106.252	84.458	1.00	21.59		С
MOTA	8437	NE	ARG			44.886	105.110	83.734		21.88		N
ATOM	8439	CZ	ARG				104.060	.83.278		21.84		Ċ
ATOM	8440		ARG				103.963	83.459	1.00	21.38		Ň
ATOM	8443		ARG			44.837	103.089	82.630		21.63		N
ATOM	8446	С	ARG			44.615	109.579	87.513	1.00	20.92		``c
MOTA	8447	0	ARG	C	264		109.401	88.095	1.00	20.89		o
ATOM	8448	N	GLN	C	265	45.735	109.931	88.142		20.82		
ATOM	8450	CA	GLN			45.805	110.075	89.601		20.79		N
ATOM	8452	CB	GLN				109.772	90.117		20.79		C
MOTA	8455	CG	GLN				108.481	89.567		20.82		C
	8458	CD	GLN			47 704	107.288	90.497				C
ATOM	8459		GLN				107.105			20.48		C
ATOM	8460		GLN				107.103	91.114		19.44		0
ATOM	8463	C	GLN			45 376	111.476	90.597		19.51		N
ATOM	8464	Ö	GLN				111.476	90.055		20.74		С
ATOM	8465	N	GLN					91.183		20.71		0
ATOM	8467	CA	GLN			45.557	112.465	89.174		20.57		N
ATOM	8469	CB				45.069	113.830	89.426		20.43		С
ATOM	8472		GLN			45.622	114.792	88.371		20.43		С
ATOM	8475	CG	GLN			47.155	114.861	88.305		20.22		С
		CD	GLN				115.901	87.323		19.98		С
ATOM	8476		GLN				115.671	86.617		20.15		0
ATOM	8477		GLN				117.048	87.277		19.72		N
ATOM	8480	С	GLN				113.891	89.401	1.00	20.42		C
ATOM	8481	0	GLN				114.711	90.089	1.00	20.27		0
ATOM	8482	N	ARG			42.949	113.027	88.580	1.00	20.42		N
MOTA	8484	CA	ARG				112.910	88.461		20.37		C
ATOM	8486	CB	ARG			41.107	112.392	87.071		20.42		C
MOTA	8489	CG	ARG				113.274	85.908		20.99		č
MOTA	8492	CD	ARG	C	267	42.687	112.641	85.035		20.90		č
MOTA	8495	NE	ARG	C :	267	42.895	113.349	83.768		20.87		Ň
ATOM	8497	CZ	ARG			42.056	113.328	82.731		20.65		Ĉ
MOTA	8498	NH1	ARG	C	267	40.916	112.640	82.774	1.00	20.84		N
ATOM	8501		ARG	C	267	42.354	114.011	81.637		20.00		N
ATOM	8504	C	ARG	C	267		111.982	89.533		20.31		C
MOTA	8505	0	ARG				112.091	89.896		20.31		Ö
MOTA	8506	N	PHE			41.772	111.075	90.040		20.33		
MOTA	8508	CA	PHE			41.390	110.250	91.182		19.98		N
MOTA	8510	CB	PHE			42.315	109.039	91.341		20.00		C
ATOM	8513	CG	PHE			41.736	107.952	92.207				C
ATOM	8514		PHE			40.581	107.276	91.816		20.22		C
ATOM	8516		PHE			40.033	106.277	92.615		20.27		C
ATOM	8518	CZ	PHE				105.277			20.27		C
ATOM	8520		PHE	č	268		106.612	93.824		20.50		C
ATOM	8522	CD2	PHE	č	268	47.127	100.612	94.227		20.51		C
ATOM	8524	CDZ	PHE	~	260	42.333	110.011	93.421		20.26		С
MOTA	8525	0					111.091	92.461		19.85		C
ATOM	8526		PHE				110.801	93.387		19.72		0
ATOM	8528	N C7	ALA				112.133	92.500		19.78		N
		CA	ALA				113.105	93.589		19.64		С
MOTA	8530	CB	ALA				113.990	93.541		19.62	•	С
ATOM	8534	_ <u>C</u>	ALA	C :	<b>2</b> 69	40.921	113.957	93.475	1.00	19.48		С

ATOM	8535	0 .	ALA					114:459		1.00 19.39	
ATOM ATOM	8536 8538	N .			270			114.119		1.00 19.23	
ATOM	8540	.CA CB			270 270			114.888		1.00 19.12	
ATOM	8543	CG	HIS		270			115.315 116.264		1.00 19.16	
ATOM	8544				270		38 089	117.564	90.199	1.00 19.71	
ATOM	8546				270		36.985	118.160		1.00 20.24	
MOTA	8548				270		36.277			1.00 20.51	
ATOM	8550		HIS	С	270		36.948	116.093		1.00 19.93	
ATOM	8552	С			270		37.965	114.111	92.336	1.00 18.88	
ATOM	8553	0			270		37.127		93.081	1.00 18.65	
ATOM	8554	N			271		37.835	112.896		1.00 18.69	
ATOM ATOM	8556 8558	CA CB			271		36.668	112.035	92.044	1.00 18.42	
ATOM	8561	CG			271 271		36.775	110.735		1.00 18.48	
ATOM	8562			C	271		36.888	110.799 110.860		1.00 18.10	
ATOM	8564	CE1			271			110.860		1.00 17.95	
ATOM	8566	CZ			271		34.914	110.887		1.00 18.02 1.00 18.02	
ATOM	8568	CE2		С			34.135	110.813	88.504	1.00 17.76	
ATOM	8570			С	271		34.742	110.764	89.750	1.00 17.92	
ATOM .	8572	С			271		36.523	111.669	93.522	1.00 18.29	
MOTA	8573	0	PHE				35.416	111.524	94.022	1.00 18.03	
ATOM ATOM	8574	.N	THR					111.509		1.00 18.33	
ATOM	8576 8578	CA CB	THR		272		37.685			1.00 18.31	
ATOM	8580	OG1	THR THR				39.091 39.015	110.549	95.983	1.00 18.17	
ATOM	8582	CG2	THR				40.101	109.830 111.664	97.215	1.00 18.89	
ATOM	8586	C	THR				37.265	112.233	96.276 96.541	1.00 18.00	
ATOM	8587	0	THR					111.987	97.546	1.00 18.28 1.00 18.32	
MOTA	8588	N	GLU				37.659		96.210	1.00 18.32	
ATOM	8590	CA	GLU				37.298	114.644	97.002	1.00 18.23	
ATOM	8592	CB	GLU					115.878	96.570	1.00 18.38	
ATOM ATOM	8595 8598	CG	GLU		273		39.536		97.123	1.00 18.56	
ATOM	8599	CD OE1	GLU		273		40.359	117.064	96.531	1.00 20.02	
ATOM	8600	OE2					41.547 39.813	116.848	96.169	1.00 18.94	
ATOM	8601	C	GLU		273			118.186 114.918	96.429	1.00 21.08	
ATOM	8602	ō	GLU				35.174	115.382	96.886 97.844	1.00 18.09 1.00 18.05	
ATOM	8603	N	LEU				35.234		95.718	1.00 18.05 1.00 17.89	
MOTA	8605	CA	LEU	С	274			114.713	95.492	1.00 17.69	
ATOM	8607	CB	LEU		274		33.456	114.518	94.016	1.00 17.55	
MOTA	8610	CG	LEU		274		33.964	115.597	93.066	1.00 17.32	
ATOM ATOM	8612 8616		LEU		274			115.071	91.641	1.00 17.35	
ATOM	8620	CD2	LEU		274		33.149	116.873		1.00 16.94	
ATOM	8621	Ö	LEU					113.683 113.948	96.293	1.00 17.56	
MOTA	8622	N	ALA				33.600	112.503	96.704 96.481	1.00 17.68	
ATOM .	8624	CA	ALA				32.977	111.439	97.266	1.00 17.44 1.00 17.50	
ATOM	8626	CB	ALA	С	275		33.681	110.105	97.010	1.00 17.30	
ATOM	8630	C	ALA				32.979	111.777	98.766	1.00 17.56	
ATOM	8631	0	ALA				32.071	111.395	99.476	1.00 17.28	
ATOM	8632	N	ILE				34.006	112.489	99.226	1.00 17.77	
ATOM . ATOM	8634	CA	ILE	C	276		34.086	112.970	100.603	1.00 18.09	
ATOM	8636 8638	CB	ILE	C	216		35.524	113.513	100.918	1.00 18.03	
ATOM	8641	CD1	ILE				30.5/1		100.870	1.00 17.64	
ATOM	8645	CG2	ILE	č	276	•	35,581		100.503	1.00 16.29	
ATOM	8649	C	ILE	č	276		33,035		102.279 100.849	1.00 18.02 1.00 18.55	
MOTA	8650	Ō	ILE	C	276		32.465	114.139	100.849	1.00 18.55 1.00 19.12	
ATOM	8651	N	ILE	С	277		32.788	114.909	99.842	1.00 19.12	
ATOM	8653	CA	ILE	С	277		31.794	115.992	99.930	1.00 18.94	
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ATOM	8655	СВ	ILE	С	277	31.920	116.946	98.719	1.00 18.	90	С
ATOM	8657	CG1			277		117.847	98.880	1.00 18.		Ċ
ATOM	8660		ILE				118.494	97.580	1.00 19.		Ċ
ATOM	8664	CG2					117.811	98.572	1.00 19.	13	C
ATOM	8668	C	ILE				115.414	99.994	1.00 19.	04	С
ATOM	8669	0	ILE				115.930		1.00 18.	75	0
ATOM	8670	N	SER			30.188	114.337	99.237	1.00 19.	30	N
MOTA	8672	CA	SER	С	278	28.929	113.597	99.207	1.00 19.	22	С
MOTA	8674	CB	SER	С	278	28.970	112.576	98.068	1.00 18.	81	С
MOTA	8677	OG	SER				111.716	98.118	1.00 18.	64	0
MOTA	8679	С	SER				112.907		1.00 19.	34	С
ATOM	8680	0	SER	С	278		112.856		1.00 19.		0
ATOM	8681	N	VAL				112.393		1.00 19.		N
ATOM	8683	CA	VAL				111.791		1.00 20.		C
MOTA	8685	CB	VAL				111.079		1.00 20.		С
ATOM	8687		VAL				110.670		1.00 19.		С
ATOM	8691		VAL				109.867		1.00 20.		С
MOTA	8695	С	VAL				112.822		1.00 20.		Ċ
ATOM	8696	0	VAL				112.498		1.00 20.		0
ATOM	8697	N			280		114.047		1.00 20.		N
MOTA	8699	CA			280		115.138		1.00 20.		C
ATOM	8701	CB			280		116.365		1.00 20.		C
ATOM	8704	CG			280		116.379		1.00 21.		C
ATOM	8707	CD			280		117.276		1.00 22.		C
MOTA	8708		GLN				117.479 117.803		1.00 22. 1.00 21.		
ATOM	8709		GLN		280		117.803		1.00 21.		и С
MOTA	8712 8713	C O			280		115.550		1.00 20		o
MOTA MOTA	8713	Ŋ			281		115.745		1.00 20		Ŋ
ATOM	8714	CA			281		116.037		1.00 20		C
ATOM	8718	CB	GLU		281		116.136		1.00 20		C
ATOM	8721	CG			281		117.446		1.00 22		č
ATOM	8724	CD			281		117.440	99.041	1.00 23		č
ATOM	8725		GLU				116.585	98.477	1.00 23		O
ATOM	8726	OE2			281		118.288	98.409	1.00 25		0
ATOM	8727	С			281	25.072	114.962	103.176	1.00 20	. 66	С
MOTA	8728	0	GLU	C	281	24.012	115.273	103.703	1.00 20	. 93	0
MOTA	8729	N	ILE	С	282		113.703		1.00 20	.10	N
MOTA	8731	CA			282		112.581		1.00 20		С
ATOM	8733	CB			282		111.241		1.00 19		С
MOTA	8735	CG1			282		111.181		1.00 20		С
ATOM	8738				282		110.181		1.00 18		C
MOTA	8742		ILE				110.039		1.00 19		C
MOTA	8746	C			282		112.522		1.00 20		C
ATOM	8747	0			282		112.236		1.00 20		0
MOTA	8748	N			283		112.797		1.00 20		N
MOTA	8750	CA CB			283		3 112.833 5 112.938		1.00 20		C
ATOM ATOM	8752 8754		VAL		283		112.936		1.00 20 1.00 20		C
ATOM	8758		VAL				111.682		1.00 20		Ċ
ATOM	8762	C			283		114.009		1.00 20		č
ATOM	8763	ŏ			283		113.865		1.00 20		ŏ
ATOM	8764	N			284		115.167		1.00 20		N
ATOM	8766	CA			284		116.339		1.00 20		Ċ
ATOM	8768	СВ			284		117.573		1.00 20		Č
ATOM	8771	CG			284		5 118.093		1.00 21		č
ATOM	8772				284		118.964		1.00 22		Ö
ATOM	8773				284		7 117.690		1.00 23		Ō
ATOM	8774	C			284		3 116.103		1.00 20		Ċ
ATOM	8775	0			284		1 116.437		1.00 19		0
ATOM	8776	N	PHF	<u>. c</u>	285	22.20	115.515	105.803	1.00 19	.83	N

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8778 8780 8783 8784 8786 8788 8790 8792 8794 8795 8798 8800 8804 8805 8806 8810 8813 8816	CE1 CZ CE2	PHE PHE PHE PHE PHE PHE ALA ALA ALA ALA LYS LYS LYS		285 285 285		20.817 19.473 18.520 17.260 16.954 17.895 19.142 20.220 19.068 20.373 21.329 19.932 18.931 20.655 20.316 21.479 22.745	115.144 114.581 114.040 114.868 114.370 113.049 112.212 112.711 114.150 114.320 113.141 112.111 110.961 112.678 112.253 113.663 114.248 115.080 114.257 114.156	103.973 103.557 102.973 102.591 102.813 103.409 103.779 106.407 106.798 107.709 107.908 109.058 109.613 109.564 110.865 111.405 111.706	1.00 2 1.00 1 1.00 2 1.00 2 1.00 1 1.00 1 1.00 2 1.00 2 1.00 2 1.00 2 1.00 2 1.00 2 1.00 2 1.00 2	0.04 9.95 1.97 0.13 0.23 9.22 9.53 1.37 1.81 2.58 2.49 2.87 2.86 3.73 4.44 4.36 5.81			${\tt CCCCCCCCCCCCC}^{\tt N}$
ATOM	8819	CE	LYS		287		24.542	114.338	113.566	1.00 3			•	C
ATOM ATOM	8822 8826	NZ C			287 287	•	25.172	113.101	114.155	1.00 3			•	N
ATOM	8827	ŏ			287		18.347	115.071 115.255	110.802	1.00 2				C.
MOTA	8828	N	GLN	С	288		18.666	115.526	109.601	1.00 2		•		O N
ATOM ATOM	8830	CA			288		17.427	116.262	109.343	1.00 2	4.96			Ċ
ATOM	8832 8835	CB CG			288 288		10.668	117.333	108.265	1.00 2	4.98			C
ATOM	8838	CD			288		19.032	119.438	108.803	1.00 2			•	C
MOTA	8839	OE1	GLN	С	288		18.397	120.370	107.199	1.00.3				C O
ATOM	8840		GLN				20.282	119.139	107.362	1.00 3				Ŋ
ATOM ATOM	. 8843	C			288		16.240	115.366	108.946	1.00 2	4.43			ĉ
ATOM	8844 8845	O N			288 289		15.141	115.880	108.780	1.00 2				0
ATOM	8847	CA			289		15.357	114.057 113.121	108.763	1.00 2: 1.00 2:				N
ATOM	8849	CB	VAL	С	289		15.836	111.779	107.893	1.00 2				C
ATOM	8851		VAL				14.699	110.780	107.756	1.00 2				C
ATOM ATOM	8855		VAL				16.447	112.015	106.525	1.00 2	2.73			С
ATOM	18859 8860	С 0			289 289		14.640	112.873	109.832	1.00 2				С
MOTA	8861	N			290		13.255	112.367 113.293	110.//1	1.00 23				0
MOTA	8862	CA	PRO	С	290		12.570	113.027	111.150	1.00 2				И С
ATOM	8864	CB			290		11.154	113.499	110.731	1.00 2	2.83			Č
ATOM ATOM	8867 8870	CG CD	PRO				11.430	114.619	109.764	1.00 22	2.49			Č
ATOM	8873	CD	PRO		290 290		12.621	114.123 111.554	108.987		3.43			С
ATOM	8874	ŏ			290		12.309	110.663	111.590	1.00 2				C
MOTA	8875	N	GLY	С	291		12.882	111.321	112.860	1.00 20				O N
ATOM	8877	CA	GLY	C	291		13.035	109.984	113.398	1.00 20				C
ATOM ATOM	8880 8881	C O	GLY GLY				14.489	109.614	113.646	1.00 20				C
ATOM	8882	N	PHE				14./63	108.826 110.179	114.547	1.00 20	0.00			· O
MOTA	8884	CA	PHE	Č	292		16.824	109.792	112.928	1.00 20				N C
ATOM	8886	CB	PHE	С	292		17.650	110.499	111.854	1.00 20				C
MOTA MOTA	8889	CG	PHE	C	292,		19.063	109.980	111.738	1.00 19	9.88			C
ATOM	8890 8892		PHE PHE				19.313	108.730	111.194	1.00 19	9.73			С
MOTA	8894	CZ	PHE			•	21.699	108.228 108.993	111 528	1.00 20				C
ATOM	8896	CE2	PHE	C	292	•	21.454	110.268	112.078	1.00 22				C
MOTA	8898	CD2	PHE	С	292		20.139	110.750	112.172	1.00 20	0.57			C
MOTA	8900	С	PHE	С	292		17.417	110.088	114.282	1.00 20	0.65			·c
	,													

ATOM	8901	0	PHE C	292	18.168 109.283 114.829 1.00 20.80	0
ATOM	8902	N	LEU C		17.072 111.236 114.842 1.00 20.96	N
ATOM	8904		LEU C		17.651 111.623 116.119 1.00 21.58	Ĉ
	8906	CB	LEU C		17.866 113.149 116.172 1.00 22.24	Č
MOTA					18.982 113.604 115.169 1.00 24.54	č
MOTA	8909	CG	LEU C			c
MOTA	8911		LEU C		18.918 115.091 114.766 1.00 26.29	
MOTA	8915		LEU C		20.399 113.299 115.679 1.00 25.36	C
MOTA	8919	С	LEU C		16.890 111.047 117.328 1.00 21.07	С
ATOM	8920	0	LEU C	293	17.216 111.353 118.436 1.00 20.52	0
ATOM	8921	N	GLN C	294	15.916 110.165 117.076 1.00 21.25	N
ATOM	8923	CA	GLN C	294	15.207 109.392 118.107 1.00 21.11	С
ATOM	8925	CB	GLN C		13.787 108.996 117.617 1.00 20.66	С
ATOM.	8928	CG	GLN C		12.756 110.142 117.485 1.00 20.76	С
MOTA	8931	CD	GLN C		11.395 109.673 116.957 1.00 20.07	С
ATOM	8932	OE1			10.885 108.635 117.368 1.00 22.27	0
	8933	NE2			10.819 110.435 116.044 1.00 21.53	N
ATOM					15.995 108.108 118.460 1.00 21.18	c .
ATOM	8936	C	GLN C			ŏ
ATOM	8937	0	GLN C			N
ATOM	8938	N	LEU C			
MOTA	8940	CA	LEU C		17.617 106.457 117.676 1.00 19.97	C.
MOTA	8942	CB	LEU C		18.184 106.000 116.331 1.00 19.84	C
MOTA	8945	CG	LEU C		17.120 105.608 115.308 1.00 21.51	C
MOTA	8947		LEU C		17.677 105.567 113.880 1.00 21.63	C
ATOM	8951	CD2	LEU C	295	16.508 104.280 115.724 1.00 22.38	С
ATOM	8955	C	LEU C	295	18.776 106.814 118.579 1.00 18.98	С
ATOM	8956	0	LEU C	295	19.174 107.979 118.657 1.00 18.87	0
ATOM	8957	N	GLY C	296	19.334 105.794 119.222 1.00 18.24	N
ATOM	8959	CA	GLY C		20.553 105.924 119.992 1.00 17.51	С
ATOM	8962	C	GLY C		21.708 106.223 119.064 1.00 17.28	C ·
MOTA	8963	ŏ	GLY C		21.676 105.904 117.864 1.00 16.50	0
ATOM	8964	N	ARG C		22.722 106.867 119.610 1.00 17.04	N
ATOM	8966	CA	ARG C		23.866 107.274 118.814 1.00 17.85	С
	8968	CB	ARG C		24.914 107.939 119.702 1.00 18.51	Ċ
MOTA			ARG C		25.970 108.701 118.932 1.00 21.03	č
ATOM	8971	CG			26.565 109.885 119.697 1.00 24.13	č
MOTA	8974	CD	ARG C		27.446 110.642 118.814 1.00 26.89	N
ATOM	8977	NE	ARG C			Ĉ
ATOM	8979	CZ	ARG C		28.688 110.280 118.488 1.00 28.95	N
ATOM	8980		ARG (		29.245 109.170 118.989 1.00 28.90	
ATOM	8983		ARG (		29.386 111.044 117.654 1.00 30.13	N
MOTA	8986	С		297	24.500 106.110 118.072 1.00 17.21	C
MOTA	8987	0		297	24.996 106.292 116.970 1.00 17.19	0
ATOM	8988	N		298	24.485 104.927 118.684 1.00 17.07	N
MOTA	8990	CA	GLU (		25.127 103.732 118.118 1.00 17.04	C
MOTA	8992	CB		298	25.210 102.597 119.172 1.00 17.47	Ç
MOTA	8995	CG	GLU (	298	26.611 102.225 119.675 1.00 20.19	С
MOTA	8998	CD	GLU (	298	26.928 102.699 121.098 1.00 24.27	С
ATOM	8999	OE1	L GLU (		27.441 101.898 121.941 1.00 26.54	0
MOTA	9000		GLU (		26.710 103.894 121.377 1.00 26.08	0
ATOM	9001	С		C 298	24.375 103.269 116.857 1.00 16.16	С
ATOM	9002	ŏ		298	24.988 102.930 115.857 1.00 15.40	0
ATOM	9003			C 299	23.043 103.275 116.903 1.00 15.81	N
ATOM	9005			C 299	22.237 102.947 115.717 1.00 15.58	C
ATOM	9003			C 299	20.776 102.702 116.079 1.00 15.51	č
				C 299	20.580 101.419 116.853 1.00 17.40	č
MOTA	9010				21.597 100.704 117.109 1.00 17.79	ő
ATOM	9011		1 ASP		19.440 101.049 117.244 1.00 18.34	0
ATOM	9012		2 ASP			č
MOTA	9013			C 299	22.323 104.014 114.631 1.00 14.43	
ATOM	9014			C 299	22.216 103.687 113.475 1.00 14.52	O N
MOTA	9015			C 300	22.528 105.270 115.010 1.00 13.51	И
MOTA	9017			C 300	22.701 106.360 114.061 1.00 13.20	C
MOTA	9019	CB	GLN	C 300	22.832 107.720 114.787 1.00 13.53	С

ATOM	9022	CG	GLN	С	300	21.478	100 370	115.142	1 00' 1	
ATOM	9025	CD	GLN		300	21.589	109.678	115.142	1.00 14.58	
MOTA	9026	OE1			300	22.618	110.348		1.00 16.44	
ATOM	9027	NE2			300	20.521		116.625	1.00 18.72	
ATOM	9030	C	GLN		300	23.941			1.00 18.19	
ATOM	9031	ŏ	GLN	-	300		106.081		1.00 12.90	
ATOM	9032	N			301	23.890	106.120		1.00 12.11	
ATOM	9034	CA			_	25.042	105.771		1.00 12.62	
ATOM	9036	CB			301	26.318	105.476		1.00 12.44	
ATOM	9038	CG1			301	27.455	105.338	114.313	1.00 12.75	
ATOM	9041	CD1			301	27.860		114.830	1.00 13.07	
ATOM	9041	CG2			301	28.710	106.675	116.118	1.00 13.04	
ATOM	9045	CGZ			301	28.698	104.619	113.728	1.00 12.96	
ATOM	9050	0			301	26.210			1.00 12.02	
ATOM	9051		ILE		301	26.632	104.279		1.00 12.15	
ATOM		N	ALA			25.607	103.172		1.00 11.82	
ATOM	9053	CA	ALA		302		101.932	112.124	1.00 12.16	
	9055	CB	ALA		302	24.883	100.831	113.008	1.00 12.16	
ATOM	9059	C	ALA		302	24.542		110.887	1.00 12.54	•
ATOM	9060	0	ALA		302	24.791		109.835	1.00 12.70	
MOTA	9061	N	LEU		303	23.498		111.009	1.00 13.13	
ATOM	9063	CA	LEU	_	303	22.589	103.099		1.00 13.77	
ATOM	9065	CB	LEU		303	21.304	103.819	110.334	1.00 14.12	
MOTA	9068	CG	LEU		303	20.322			1.00 15.21	
ATOM	9070	CD1			303	19.016	103.660		1.00 14.75	
ATOM	9074	CD2			303	20.057	101.608	110.416	1.00 15.95	
ATOM	9078	C	LEU		303	23.306	103.860	108.794	1.00 13.54	
ATOM	9079	0	LEU		303	23.239	103.469	107.649	1.00 12.29	
ATOM	9080	N	LEU	_	304	24.036	104.903	109.171	1.00 14.20	
ATOM	9082	CA	LEU		304	24.788	105.725	108.220	1.00 15.18	
ATOM	9084	CB	LEU		304	25.385	106.950	108.907	1.00 15.36	
ATOM	9087	CG	LEU		304	24.481	108.164	109.057	1.00 15.79	
ATOM	9089		LEU		304	25.251	109.220	109.808	1.00 17.72	
ATOM	9093	CD2	LEU		304	23.994	108.696	107.718	1.00 15.50	
ATOM	9097	C	LEU		304	25.913	104.983	107.527	1.00 15.76	
ATOM	9098	0	LEU		304	26.124	105.161	106.347	1.00 16.32	
ATOM	9099	N	LYS		305	26.631	104.161	108.276	1.00 16.60	
ATOM	9101	CA	LYS		305	27.737	103.358	107.751	1.00 16.99	
ATOM	9103	CB	LYS		305	28.447	102.638	108.909	1.00 16.84	
ATOM	9106	CG	LYS		305	29.930	102.380	108.702	1.00 17.61	
ATOM	9109	CD	LYS		305	30.525	101.476	109.823	1.00 17.48	
ATOM	9112	CE	LYS		305		100.146	109.246	1.00 18.13	
ATOM	9115	NZ	LYS		305	31.784	99.317	110.254	1.00 17.66	
ATOM	9119	C	LYS		305		102.343	106.691	1.00 17.22	
ATOM	9120	0	LYS		305		102.188	105.641	1.00 17.91	
ATOM	9121	N	ALA	C 3	306	26.163	101.659		1.00 17.29	
ATOM	9123	CA	ALA				100.665	106.005	1.00 17.55	
ATOM	9125	СВ	ALA			24.718	99.703	106.705	1.00 17.28	
ATOM	9129	C	ALA	C 3	306	24.949	101.325	104.820	1.00 17.94	
ATOM	9130	0	ALA			24.726	100.695	103.794	1.00 18.97	
ATOM	9131	N	SER			24.617	102.595	104.962	1.00 17.58	
ATOM	9133	CA	SER			23.710	103.250	104.054	1.00 17.92	
MOTA	9135	CB	SER			22.611	103.921	104.866	1.00 17.61	
ATOM	9138	OG	SER (			21.768	104.633	104.024	1.00 20.18	
ATOM	9140	С	SER			24.360	104.304	103.183	1.00 17.67	
ATOM	9141	0	SER			23.809	104.652	102.137	1.00 17.60	
ATOM	9142	N	THR	C 3	308	25.506	104.825	103.618	1.00 17.29	
ATOM	9144	CA	THR			26.125	105.959	102.965	1.00 17.23	
ATOM	9146	CB	THR			27.434	106.362	103.702	1.00 17.35	
ATOM	9148	OG1	THR			27.109	107.106	104.891	1.00 17.54	•
ATOM	9150	CG2				28.291	107.348	102.868	1.00 17.21	
ATOM	9154	С	THR	C 3	308	26.372	105.642	101.482	1.00 17.56	

ATOM 9155 N LEC 309 26.923 106.446 100.611 1.00 17.67 N ATOM 9158 N LEC 309 27.253 104.119 99.821 1.00 17.29 N ATOM 9150 CB LEC 309 27.253 104.119 99.821 1.00 17.29 N ATOM 9160 CB LEC 309 28.162 102.861 99.742 1.00 17.33 C ATOM 9160 CB LEC 309 28.162 102.861 99.742 1.00 17.33 C ATOM 9162 CGI TLEC 309 28.162 102.868 98.331 1.00 17.70 C ATOM 9165 CDI TLE C 309 28.721 102.868 98.331 1.00 17.70 C ATOM 9165 CDI TLE C 309 29.720 103.754 97.938 1.00 17.46 C ATOM 9170 CC TLEC 309 27.48 101.512 100.150 1.00 17.46 C ATOM 9171 CA GLUC 310 22.481 101.612 100.150 1.00 17.46 C ATOM 9171 CA GLUC 310 25.980 104.850 98.851 1.00 17.79 C ATOM 9175 N GLUC 310 22.748 103.163 98.855 1.00 17.79 N N ATOM 9177 CA GLUC 310 22.748 103.162 98.895 1.00 17.99 N N ATOM 9179 CB GLUC 310 22.748 102.262 99.693 1.00 18.15 C ATOM 9185 CD GLUC 310 22.288 99.903 100.554 1.00 19.42 C ATOM 9185 CD GLUC 310 22.288 99.903 100.554 1.00 19.42 C ATOM 9185 CD GLUC 310 22.288 99.903 100.554 1.00 21.85 C ATOM 9187 OEZ GLUC 310 22.288 99.903 100.554 1.00 23.35 O ATOM 9187 OEZ GLUC 310 22.287 99.898 101.108 1.00 23.35 O ATOM 9189 C GLUC 310 22.287 99.898 101.108 1.00 23.35 O ATOM 9180 C GLUC 310 22.288 100.97 100.753 1.00 23.35 O ATOM 9189 C GLUC 310 22.287 99.993 100.554 1.00 23.35 O ATOM 9189 C GLUC 310 22.287 99.993 100.554 1.00 21.65 C ATOM 9199 O GLUC 310 22.480 104.419 98.471 1.00 17.12 C ATOM 9199 N LEC 311 22.578 106.728 99.994 1.00 15.75 C ATOM 9199 N LEC 311 22.578 106.728 99.994 1.00 15.75 C ATOM 9199 N LEC 311 22.578 106.728 99.994 1.00 15.75 C ATOM 9199 O GLUC 310 22.480 104.525 97.397 1.00 16.96 O ATOM 9190 N LEC 311 22.456 107.529 102.769 1.00 16.43 N ATOM 9191 C GLUC 311 22.456 106.728 99.994 1.00 15.75 C ATOM 9195 C GLUC 311 22.456 106.997 99.998 1.00 16.43 N ATOM 920 N MET C 312 24.50 100.997 100.163 1.00 14.17 C C ATOM 920 C MET C 312 24.50 100.997 100.163 1.00 14.17 C C ATOM 920 C MET C 312 24.50 100.997 100.163 1.00 16.43 N N ATOM 920 C MET C 312 24.50 100.997 100.163 1.00 16.43 N N ATOM 920 C MET C 312 24.50 100.997 100.163 1.00 16.50 C C	ATOM	9155	0	מעיד	~	300	26 02	_	106 446	100 611				
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ATOM 9244 O LEU C 313 22.864 106.313 92.550 1.00 15.46 O ATOM 9245 N LEU C 314 22.204 106.255 94.691 1.00 16.14 N ATOM 9247 CA LEU C 314 20.868 106.790 94.405 1.00 16.84 C ATOM 9249 CB LEU C 314 19.988 106.744 95.646 1.00 17.11 C ATOM 9252 CG LEU C 314 18.631 106.002 95.673 1.00 18.67 C ATOM 9254 CD1 LEU C 314 18.454 104.919 94.622 1.00 19.10 C ATOM 9258 CD2 LEU C 314 18.413 105.431 97.060 1.00 18.21 C ATOM 9262 C LEU C 314 21.008 108.233 93.930 1.00 17.27 C ATOM 9263 O LEU C 314 20.398 108.652 92.947 1.00 16.54 O ATOM 9264 N GLU C 315 21.849 108.984 94.625 1.00 18.07 N ATOM 9266 CA GLU C 315 22.813 111.098 95.425 1.00 18.87 C ATOM 9271 CG GLU C 315 22.813 111.098 95.425 1.00 19.21 C ATOM 9271 CG GLU C 315 20.858 112.565 96.165 1.00 24.16 C ATOM 9276 OE2 GLU C 315 22.813 112.565 96.165 1.00 24.16 C ATOM 9276 OE2 GLU C 315 22.813 12.565 96.165 1.00 24.16 C ATOM 9277 C GLU C 315 22.813 12.565 96.165 1.00 24.16 C ATOM 9277 C GLU C 315 22.813 12.565 96.165 1.00 24.16 C ATOM 9277 C GLU C 315 22.813 12.565 96.523 1.00 26.27 O ATOM 9278 O GLU C 315 22.791 110.539 92.983 1.00 18.54 C ATOM 9278 O GLU C 315 22.670 111.569 92.332 1.00 18.60 O ATOM 9279 N THR C 316 23.551 109.518 92.601 1.00 18.27											1.00	16.98		С
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ATOM ATOM	9283 9285	CB OG1	THR THR	С	316 316		108.403 108.631	91.293 92.366	1.00 1 1.00 1			C
ATOM	9287	CG2					108.503	90.056	1.00 1	7.93		C
MOTA	9291	С	THR				109.252	90.182	1.00 1	7.91		C
ATOM	9292	0	THR		316		109.901	89.151	1.00 1	7.49		0
MOTA	9293	N	ALA				108.334	90.409	1.00 1	8.09		N
ATOM	9295	CA	ALA				.108.043	89.455	1.00 1	8.68		С
MOTA	9297	CB	ALA		317		106.940	89.984	1.00 1	8.51		C.
MOTA	9301	C	ALA				109.281	89.184	1.00 1	9.16		C.
MOTA	9302	0	ALA			20.025	109.573	88.041	1.00 1			0
ATOM	9303	N	ARG		318		109.999	90.259	1.00 1			N
MOTA	9305	CA	ARG					90.255	1.00 2			С
MOTA	9307	CB	ARG				111.748	91.700	1.00 2	0.76		С
MOTA	9310	CG	ARG		318		112.671	91.970	1.00 2	2.67		С
MOTA	9313	CD	ARG				112.996	93.461	1.00 2	5.30		С
ATOM	9316	NE	ARG				114.383	93.585	1.00 2	8.53		N
ATOM	9318	CZ	ARG		318		115.416	93.905	1.00 3	1.39		С
ATOM	9319		ARG				115.254	94.208	1.00 3	2.11		N
MOTA	9322		ARG				116.637	93.944	1.00 3			N
ATOM	9325	С	ARG			19.867	112.314	89.344	1.00 2			C
ATOM ·	9326	0	ARG				113.096	88.762	1.00 1	9.94		0
ATOM	9327	N	ARG		319		112.350	89.231	1.00.2	0.23		N
ATOM	9329	CA	ARG				113.378	88.481	1.00 2			С
ATOM	9331	CB	ARG				113.855	89.296	1.00 2			С
ATOM	9334	CG	ARG		319		114.309	90.693	1.00 2	0.52		С
ATOM	9337	CD	ARG				114.217	91.677	1.00 2			C
ATOM	9340	NE			319		114.904	92.926	1.00 2			N
ATOM	9342	CZ	ARG		319		115.987	93.380	1.00 2			С
ATOM	9343		ARG				116.541	92.715	1.00 2			N
ATOM	9346		ARG				116.524	94.526	1.00 2		•	N.
ATOM	9349	C			319		112.867	87.145	1.00 1			C
ATOM	9350	0	ARG				113.567	86.433	1.00 2			0
ATOM	9351	N			320 ·		111.642	86.810	1.00 1			N
ATOM ATOM	9353	CA			320		111.076	85.504	1.00 1			C
ATOM	9355 9358		TYR				109.552	85.567	1.00 1			С
ATOM	9359	CG			320		108.864	84.234	1.00 1			C
ATOM	9361		TYR TYR				108.618	83.689	1.00 1			C
ATOM	9363	CZ			320		107.980	82.469	1.00 2			C
ATOM	9364	OH			320		107.569 106.938	81.780	1.00 2			C.
ATOM	9366	CE2	TYR				106.938	80.565	1.00 2			0
ATOM	9368		TYR				107.799	82.310	1.00 2			C
ATOM	9370	C			320		111.626	83.530	1.00 1			C
ATOM	9371	ŏ	TYR				111.379	84.498	1.00 1			C
ATOM	9372	N	ASN				112.392	84.597 83.545	1.00 1			0
MOTA	9374	CA	ASN				112.914	82.467	1.00 1			N
ATOM	9376	CB			321		114.318	82.075	1.00 2 1.00 2			C
ATOM	9379	CG			321		114.833	80.780	1.00 2			C
MOTA	9380		ASN				115.125	80.693	1.00 1			- C
ATOM	9381	ND2	ASN	Č	321		114.961	79.773	1.00 1			0
ATOM	9384	С			321		111.899	81.331	1.00 2			N C
MOTA	9385	0			321	22.182	111.673	80.800	1.00 2			Ö
ATOM .	9386	N			322		111.246	80,988	1.00 2			N
ATOM	9388	CA			322		110.134	80.036	1.00 2			C
ATOM	9390	CB			322		109.134	80.230	1.00 2			c
MOTA	9393	CG	HIS	С	322		107.859	79.450	1.00 2			c
MOTA	9394	ND1	HIS	С	322		107.180	79.393	1.00 2			N
MOTA	9396	CE1	HIS	C	322		106.117	78.619	1.00 2			C
MOTA	9398	NE2	HIS	C	322		106.083	78.165	1.00 2			N
MOTA	9400	CD2	HIS	С	322	18.223	107.163	78.666	1.00 2			C
ATOM	9402	С	HIS	C	322	20.157	110.567	78.564	1.00 2			č
												-

ATOM	9403	0	HIS (	С	322	20.459	109.737	77.708	1.00 21.93	0
ATOM	9404	N	GLU (			19.920	111.848	78.275	1.00 21.88	N
ATOM	9406	CA	GLU (				112.377	76.920	1.00 21.96	Ċ
ATOM	9408	СВ	GLU (		323		113.791	76.792	1.00 22.16	č
ATOM	9411	CG	GLU (				113.911	76.989	1.00 22.94	č
ATOM	9414	CD	GLU				115.303	77.441	1.00 24.39	č
ATOM	9415		GLU				115.537	78.673	1.00 25.93	Ö
ATOM	9416		GLU				116.165	76.564	1.00 24.78	Ö
MOTA	9417	C	GLU				112.405	76.530	1.00 21.66	č
ATOM	9418	0	GLU				112.094	75.392	1.00 21.39	ő
ATOM	9419	N	THR				112.771	77.483	1.00 21.55	N
ATOM	9421	CA	THR				112.926	77.222	1.00 21.44	C
ATOM	9423	CB	THR				114.149	77.996	1.00 21.44	C
ATOM	9425	OG1					114.039	79.395	1.00 21.39	Ö
ATOM	9427	CG2					115.458	77.562	1.00 21.27	Č
ATOM	9431	C	THR				111.676	77.606	1.00 21.27	c
ATOM	9432	ŏ	THR				111.411	77.016	1.00 21.11	o
ATOM	9433	N	GLU				110.903	78.554	1.00 21.11	N
ATOM	9435	CA	GLU				109.764	79.197	1.00 21.19	· C
ATOM	9437	CB	GLU				108.669	78.158	1.00 21.16	C
ATOM	9440	CG	GLU				108.503	77.053		C
ATOM	9443		GLU						1.00 20.93	
		CD	GLU				107.353	76.119	1.00 20.84	C
ATOM ATOM	9444 9445		GLU				107.598	74.945	1.00 21.88	0
ATOM	9445						106.197 110.269	76.549	1.00 21.05	0
		С	GLU					79.970	1.00 21.06	C
ATOM	9447	0	GLU				109.694	79.857	1.00 21.38	0
MOTA	9448	N	CYS				111.351	80.773	1.00 20.97	N
ATOM	9450	CA	CYS				112.032	81.698	1.00 20.62	C
ATOM	9452	CB	CYS				113.380	81.119	1.00 20.62	C
ATOM	9455	SG	CYS				113.283	79.778	1.00 21.03	S
MOTA	9456	C	CYS				112.336	83.057	1.00 20.08	C
ATOM	9457	0	CYS				112.744	83.144	1.00 19.85	0
MOTA	9458	N	ILE		327		112.188	84.104	1.00 19.97	N
ATOM	9460	CA	ILE				112.495	85.478	1.00 19.57	C
MOTA	9462	СВ	ILE				111.441	86.438	1.00 19.77	С
ATOM	9464		ILE		327		110.036	86.107	1.00 19.43	C
MOTA	9467	CD1					108.924	86.561	1.00 18.68	C
ATOM	9471	CG2					111.821	87.922	1.00 19.37	C
ATOM	9475	C	ILE		327		113.869	85.852		C
ATOM	9476	0			327		114.129	85.672	1.00 19.10	0
MOTA	9477	N			328		114.739	86.383	1.00 19.40	N
ATOM	9479	CA			328		116.023	86.908	1.00 19.52	С
ATOM	9481	СВ			328		117.175	86.477	1.00 19.52	C
MOTA	9483		THR				117.485	85.092	1.00 19.32	0
ATOM	9485		THR				118.488	87.177	1.00 19.86	C
MOTA	9489	С			328		115.954	88.436	1.00 19.67	С
MOTA	9490	0			328		115.566	89.123	1.00 19.59	0
MOTA	9491	N			329		116.292	88.950	1.00 19.88	N
ATOM	9493	CA			329		116.475	90.379	1.00 19.94	C
MOTA	9495	CB			329		115.806	90.819	1.00 19.76	С
MOTA	9498	CG			329		3 114.313	90.717	1.00 18.14	С
MOTA	9499		PHE				3 113.649	89.997	1.00 16.96	С
MOTA	9501		PHE				112.273	89.906	1.00 16.32	C
MOTA	9503	CZ			329		111.547	90.530	1.00 16.17	C
MOTA	9505		PHE				112.194	91.261	1.00 16.95	С
MOTA	9507	CD2	PHE				113.574	91.351	1.00 16.75	С
MOTA	9509	С	PHE	С	329	28.152	2 117.961	90.744	1.00 20.54	C
ATOM	9510	0	PHE	C	329	28.429	118.823	89.898	1.00 20.45	0
MOTA	9511	N	LEU	С	330	27.91	118.237	92.025	1.00 21.19	Ņ
ATOM	9513	CA	LEU	С	330	27.90	9 119.601	92.551	1.00 21.69	Ċ
MOTA	9515	CB	LEU	С	330		3 120.228	92.474	1.00 21.81	С

ATOM	9518	CG	LEU	С	330	30,423	119.461	93.203	1 00	22.11				_
ATOM	9520	CD1	LEU				120.211	93.078		22.11				C
ATOM	9524		LEU				119.207	94.672		22.18		٠		C
ATOM	9528	С	LEU		330		120.444	91.840		21.87				C
ATOM	9529	0			330		120.194	92.023					٠.	С
ATOM .	9530	N			331		121.424	91.044		22.10		•	•	0
ATOM	9532	CA	LYS				122.295	90.322		22.12				N
ATOM	9534	CB			331		123.749	90.834		22.48				C
ATOM	9537	CG			331		124.834			22.55				C
ATOM	9540	CD	LYS		331		126.218	89.803		22.78				С
ATOM	9543	CE			331	28 382	126.216	90.460 90.254		23.07				
ATOM	9546	NZ			331		127.396			23.08				С
ATOM	9550	C	LYS				122.200	88.894		23.45			-	. N
ATOM	9551	ŏ			331	25 567	122.200	88.808		22.62				С
ATOM	9552	N			332		122.120	88.063		22.83				O
ATOM	9554	CA	ASP		332		122.160	88.366		22.77				. И
ATOM	9556	СВ			332		122.276	86.943	1.00	22.91				С
ATOM	9559	CG			332		123.631	86.668		22.95				С
ATOM	9560		ASP		332	26.610	124.690	86.214		23.26	•			С
ATOM	9561		ASP			20.040	124.671	86.676		25.08				0
ATOM	9562	C			332			85.405	1.00	21.44				0
ATOM	9563	Ö	ASP		332		121.178	86.409	1.00	22.95				С
ATOM	9564	N			333		121.017	85.196		23.16				0
ATOM	9566	CA			333		120.441	87.280		23.00				N
ATOM	9568	CB	PHE				119.471	86.822		22.97				С
ATOM	9571	CG					119.047	87.969		23.05				C
ATOM	9572				333		120.174	88.566		23.21	·			С
ATOM	9574		PHE PHE				121.412	87.940		23.89				С
ATOM	9576						122.429	88.504		23.79				С
ATOM		CZ	PHE	0	333		122.218	89.701		23.41				С
ATOM	9578	CEZ	PHE	0	333 .		120.996	90.334		23.59				С
	9580				333 .	33.151	119.981	89.768		23.64	•			С
MOTA	9582	C			333 .		118.243	86.224		22.95				C
ATOM	9583	0			333		117.651	86.859		23.10				0
ATOM	9584	N	THR				117.876	85.004		22.92				N
ATOM	9586	CA			334		116.767	84.263		22.91				С
MOTA	9588	CB			334	29.052	117.321	83.039		22.95				С
ATOM	9590	OG1					117.052	83.200		23.46				0
ATOM	9592	CG2					116.617	81.733		23.14				С
ATOM	9596	C			334		115.738	83.846		22.78				С
ATOM ATOM	9597	0			334		116.093	83.563		22.83				0
	9598	N			335		114.467	83.798		22.76				N
ATOM ATOM	9600	CA	TYR		335		113.357	83.552		22.83				С
	9602	CB			335		112.809	84.865		22.65				С
ATOM	9605	CG			335		113.866	85.718		22.97				C
ATOM	9606	CD1			335		114.398	86.810		23.06				С
MOTA	9608		TYR				115.376	87.594		23.22				С
ATOM	9610	CZ			335	33.735	115.843	87.302		23.50				C
ATOM	9611	OH	TYK	C	335		116.818	88.104		24.32				0
ATOM	9613	CEZ	TYR	C	335		115.344	86.213		23.60				C
ATOM	9615		TYR	C	335		114.357	85.424		23.11				C
ATOM	9617	C			335		112.217	82.773		22.97	•			C
ATOM	9618	0			335	29.795	111.596	83.236		22.91				Ο.
ATOM	9619	N			336		111.941	81.595		23.13				N
MOTA	9621	CA			336	30.833	110.847	80.753		23.28				C
ATOM	9623	CB			336		110.981	79.345		23.02				С
ATOM	9626	OG			336	32.805	111.348	79.429		23.21				0
ATOM	9628	C			336	31.196	109.478	81.359		23.45				C
ATOM	9629	0			336		109.388	82.336		23.19				0
ATOM	9630	N			337	30.637	108.423	80.760		23.74				N
ATOM	9632	CA			337	31.026	107.034	81.040		23.61				C
ATOM-	9634	CB	ΓX2	С	337	30.441	106.083	79.979	1.00	23.79				·C

ATOM 9640 CD LYS C 337	ATOM	9637	CG	LYS	С	337	29.359	105.144	80.487	1.00	24 13		C
ATOM 9646 NZ LYS C 337 28.100 102.979 80.036 1.00 25.18 C ATOM 9650 C LYS C 337 32.543 106.862 81.036 1.00 23.58 C ATOM 9651 O LYS C 337 33.095 106.269 81.966 1.00 23.58 C ATOM 9652 N ASP C 338 33.195 107.376 79.984 1.00 23.31 N ATOM 9656 CA ASP C 338 33.195 107.376 79.984 1.00 23.46 C ATOM 9666 CA ASP C 338 33.195 107.276 79.791 1.00 23.46 C ATOM 9660 OD1 ASP C 338 33.195 107.376 79.984 1.00 23.48 C ATOM 9660 CD1 ASP C 338 34.643 106.254 77.431 1.00 23.50 C ATOM 9661 DD2 ASP C 338 34.643 106.254 77.431 1.00 23.49 C ATOM 9661 DD2 ASP C 338 34.640 108.152 80.6559 1.00 23.44 O ATOM 9661 DD2 ASP C 338 35.450 106.254 77.531 1.00 23.45 C ATOM 9666 C AS ASP C 338 35.450 108.152 80.6559 1.00 23.45 C ATOM 9666 C AS ASP C 339 34.650 108.152 80.6559 1.00 23.45 C ATOM 9666 C AS ASP C 339 34.650 108.152 80.6559 1.00 23.45 C ATOM 9666 C AS ASP C 339 34.650 108.152 80.933 1.00 23.52 O ATOM 9666 C AS ASP C 339 34.650 108.152 80.933 1.00 23.52 O ATOM 9666 C ASP C 339 34.650 108.152 80.933 1.00 23.52 O ATOM 9666 C AS ASP C 339 34.650 108.152 80.933 1.00 23.46 C ATOM 9671 CG ASP C 339 34.650 108.152 80.933 1.00 23.46 C ATOM 9671 CG ASP C 339 34.322 113.536 81.00 23.46 C ATOM 9671 CG ASP C 339 34.322 113.536 81.00 23.46 C ATOM 9673 OD2 ASP C 339 36.252 112.652 81.246 1.00 23.46 C ATOM 9673 OD2 ASP C 339 36.252 112.652 81.246 1.00 23.46 C ATOM 9678 C AP HE C 340 35.010 108.483 83.663 1.00 23.57 O ATOM 9678 C AP HE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9680 C PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9680 C PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9680 C PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9680 C PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9680 C PHE C 340 35.010 108.483 83.663 1.00 23.96 C ATOM 9680 C PHE C 340 35.010 108.483 83.663 1.00 23.95 C ATOM 9680 C PHE C 340 35.010 108.483 83.663 1.00 23.95 C ATOM 9680 C PHE C 340 35.150 108.889 107.759 87.959 1.00 23.95 C ATOM 9700 C HE C 340 35.150 108.899 109.750 C R ATOM 9700 C HE C 340 35.150 108.899 109.750 C R ATOM 9700 C HE C 340 35.150	ATOM	9640					29.345	103.817					C
ATOM 9650 C LYS C 337 32.543 106.862 81.036 1.00 23.588 C ATOM 9651 O LYS C 337 33.095 106.269 81.966 1.00 23.45 O ATOM 9652 N ASP C 338 33.195 107.376 79.994 1.00 23.45 N ATOM 9654 CA ASP C 338 33.195 107.376 79.994 1.00 23.46 C ATOM 9656 CB ASP C 338 35.028 107.408 78.311 1.00 23.48 C ATOM 9650 CD ASP C 338 35.028 107.408 78.311 1.00 23.48 C ATOM 9660 OD1 ASP C 338 35.528 107.208 77.331 1.00 23.45 C ATOM 9660 OD1 ASP C 338 35.535 105.798 76.567 107.531 1.00 23.45 C ATOM 9661 OD2 ASP C 338 35.450 106.254 77.331 1.00 23.45 C ATOM 9662 C ASP C 338 35.490 108.156 80.558 10.00 23.45 C ATOM 9664 N ASP C 339 34.929 109.297 81.064 1.00 23.40 O ATOM 9666 CA ASP C 339 34.929 109.297 81.004 1.00 23.37 C ATOM 9666 CA ASP C 339 34.929 109.297 81.004 1.00 23.37 C ATOM 9671 CG ASP C 339 34.929 109.297 81.004 1.00 23.37 C ATOM 9671 CG ASP C 339 34.929 109.297 81.004 1.00 23.37 C ATOM 9671 CG ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9671 CG ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9671 CG ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9674 C ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9676 N PHE C 340 35.814 107.614 18.82 60 1.00 23.365 C ATOM 9676 N PHE C 340 35.214 107.611 84.826 1.00 23.365 C ATOM 9676 N PHE C 340 35.214 107.611 84.826 1.00 23.367 C ATOM 9678 CA PHE C 340 35.214 107.611 84.826 1.00 24.12 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C C ATOM 9701 CB HE C 340 35.214 107.611 84.826 1.00 24.12 C C ATOM 9701 CB HE C 340 35.214 107.611 84.826 1.00 24.12 C C ATOM 9701 CB HE C 340 35.214 107.611 84.826 1.00 24.10 C C ATOM 9701 CB HE C 340 35.214 107.00 CB ATOM 9701 CB													
ATOM 9651 O LYS C 337 33.095 106.296 81.966 1.00 23.45 N ATOM 9652 N ASP C 338 33.195 107.376 81.968 1.00 23.31 N ATOM 9654 CA ASP C 338 34.643 107.216 79.791 1.00 23.46 C ATOM 9659 CG ASP C 338 34.643 107.216 79.791 1.00 23.46 C ATOM 9659 CG ASP C 338 34.563 106.254 77.431 1.00 23.48 C ATOM 9659 CG ASP C 338 34.563 106.254 77.431 1.00 23.40 C ATOM 9661 OD2 ASP C 338 35.533 105.798 76.567 1.00 23.44 O ATOM 9661 OD2 ASP C 338 35.533 105.798 76.567 1.00 23.44 O ATOM 9661 OD2 ASP C 338 35.549 108.146 77.531 1.00 23.40 O ATOM 9662 C ASP C 338 36.665 107.852 80.933 1.00 23.45 C ATOM 9663 O ASP C 338 36.665 107.852 80.933 1.00 23.45 C ATOM 9666 C A ASP C 339 36.650 107.852 80.933 1.00 23.45 C ATOM 9666 C A ASP C 339 34.569 110.193 82.014 1.00 23.46 C ATOM 9666 C A ASP C 339 34.620 110.193 82.014 1.00 23.46 C ATOM 9671 CG ASP C 339 34.784 111.473 82.260 1.00 23.37 C ATOM 9671 CG ASP C 339 34.525 112.652 80.734 1.00 22.17 O ATOM 9671 CG ASP C 339 34.522 112.652 80.734 1.00 23.23 C ATOM 9674 C ASP C 339 34.525 112.652 80.734 1.00 23.25 C ATOM 9676 N ASP C 339 34.525 113.536 81.054 1.00 23.65 C ATOM 9676 N ASP C 339 34.525 113.536 81.054 1.00 23.65 C ATOM 9676 N ASP C 339 34.525 113.536 81.054 1.00 23.65 C ATOM 9676 N ASP C 339 34.325 113.536 81.054 1.00 23.65 C ATOM 9678 C APHE C 340 35.014 107.611 84.826 1.00 24.02 2.17 O ATOM 9676 N ASP C 339 34.325 113.536 81.054 1.00 23.65 C ATOM 9680 CB PHE C 340 35.14 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 33.258 107.548 81.935 1.00 23.95 C ATOM 9680 CB PHE C 340 33.258 107.548 81.939 100.23.95 C ATOM 9680 CB PHE C 340 33.258 107.548 81.939 100.23.95 C ATOM 9680 CB PHE C 340 32.258 107.548 81.939 100.23.95 C ATOM 9680 CB PHE C 340 32.258 107.548 81.939 100.23.95 C ATOM 9680 CB PHE C 340 32.258 107.548 81.939 100.23.95 C ATOM 9790 CB HIB C 340 32.258 107.548 81.939 100.23.95 C ATOM 9790 CB HIB C 341			_										
ATOM 9654 CA ASP C 338 33.195 107.5976 99.904 1.00 23.431 N ATOM 9656 CB ASP C 338 34.643 107.216 97.9191 1.00 23.468 C ATOM 9659 CG ASP C 338 35.028 107.408 78.311 1.00 23.468 C ATOM 9660 OD1 ASP C 338 35.028 107.408 78.311 1.00 23.50 C ATOM 9661 OD2 ASP C 338 35.535 105.798 7.61.567 1.00 23.44 O ATOM 9661 OD2 ASP C 338 35.450 106.254 77.531 1.00 23.454 O ATOM 9662 C ASP C 338 35.450 108.254 97.531 1.00 23.50 O ATOM 9664 N ASP C 339 34.929 109.297 81.064 1.00 23.37 O ATOM 9666 CA ASP C 339 34.929 109.297 81.064 1.00 23.37 O ATOM 9666 CB ASP C 339 34.929 109.297 81.064 1.00 23.37 C ATOM 9671 CG ASP C 339 34.784 111.473 82.260 1.00 23.37 C ATOM 9672 OD1 ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9674 C ASP C 339 36.252 112.652 80.741 1.00 23.365 C ATOM 9676 N PHE C 340 35.854 109.473 83.350 1.00 23.655 C ATOM 9676 N PHE C 340 35.854 109.473 83.350 1.00 23.655 C ATOM 9676 N PHE C 340 35.510 10.88 83.663 1.00 23.867 C ATOM 9678 CA PHE C 340 35.510 10.88 83.663 1.00 23.867 C ATOM 9678 CA PHE C 340 35.510 1.00 4.883 83.663 1.00 23.665 C ATOM 9680 CB PHE C 340 35.514 10.7611 84.826 1.00 24.122 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.122 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.122 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.122 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.02 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.02 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.02 C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 24.02 C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 24.02 C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 23.91 C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 23.91 C ATOM 9690 CB PHE C 340 35.214 107.611 84.826 1.00 23.91 C ATOM 9700 CB HE C 340 36.856 85.895 100.839 100.23.31 N ATOM 9701 CB													
ATOM 9656 CB ASP C 338 34.643 107.216 79.791 1.00 23.46 C ATOM 9659 CG ASP C 338 35.028 107.408 78.310 1.00 23.48 C ATOM 9659 CG ASP C 338 35.05.798 76.557 1.00 23.44 O ATOM 9661 ODL ASP C 338 35.535 105.798 76.557 1.00 23.44 O ATOM 9661 ODL ASP C 338 35.353 105.798 76.557 1.00 23.44 O ATOM 9661 ODL ASP C 338 35.495 105.740 77.531 1.00 23.40 O ATOM 9662 C ASP C 338 35.490 108.156 80.658 1.00 23.45 C ATOM 9663 O ASP C 338 35.490 108.156 80.658 1.00 23.45 C ATOM 9663 O ASP C 338 36.650 107.852 80.933 1.00 23.45 C ATOM 9666 CA ASP C 339 34.929 109.297 81.064 1.00 23.46 C ATOM 9666 CA ASP C 339 34.929 109.297 81.064 1.00 23.46 C ATOM 9666 CA ASP C 339 34.742 10.01.93 82.014 1.00 23.46 C ATOM 9667 1.00 ASP C 339 34.744 111.473 82.200 1.00 23.37 C ATOM 9671 CG ASP C 339 36.252 112.652 80.734 1.00 23.37 C ATOM 9671 CG ASP C 339 36.252 112.652 80.734 1.00 23.37 C ATOM 9673 ODL ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9673 ODL ASP C 339 35.854 109.473 83.350 1.00 23.65 C ATOM 9675 O ASP C 339 35.854 109.473 83.350 1.00 23.65 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9678 CA PHE C 340 35.010 108.483 83.663 1.00 23.66 C ATOM 9683 CG PHE C 340 35.214 107.01 88.56 85.115 1.00 24.16 C ATOM 9680 CE PHE C 340 35.214 107.01 88.56 85.115 1.00 24.16 C ATOM 9680 CE PHE C 340 35.216 10.683 85.316 1.00 24.06 C ATOM 9680 CE PHE C 340 35.216 10.683 85.316 1.00 24.06 C ATOM 9680 CE PHE C 340 35.216 10.683 85.316 1.00 24.10 C ATOM 9690 CE PHE C 340 35.216 10.654 85.316 1.00 24.06 C ATOM 9690 CE PHE C 340 35.254 10.656 85.316 1.00 24.10 C ATOM 9690 CE PHE C 340 35.254 10.656 85.316 1.00 24.10 C ATOM 9690 CE PHE C 340 35.254 10.656 85.316 1.00 24.10 C ATOM 9690 CE PHE C 340 35.254 10.656 85.316 1.00 24.10 C ATOM 9690 CE PHE C 340 36.405 106.676 84.595 1.00 23.70 C ATOM 9690 CE PHE C 340 36.405 106.676 84.595 1.00 23.70 C ATOM 9700 CE HIS C 341 38.295 100.10 88.80 10.00 23.70 C ATOM 9700 CE HIS C	ATOM						33.195	100.209					
ATOM 9659 CG ASP C 338 35.028 107.408 78.310 1.00 23.46 C ATOM 9660 OD1 ASP C 338 34.563 106.254 77.431 1.00 23.40 O   ATOM 9661 OD2 ASP C 338 35.353 105.798 76.567 1.00 23.44 O   ATOM 9661 OD2 ASP C 338 35.353 105.798 76.567 1.00 23.44 O   ATOM 9662 C ASP C 338 35.490 108.156 80.658 1.00 23.45 O   ATOM 9663 O ASP C 338 36.650 107.852 80.933 1.00 23.45 O   ATOM 9664 N ASP C 339 34.929 109.297 81.064 1.00 23.46 C   ATOM 9666 CA ASP C 339 35.602 110.193 82.014 1.00 23.47 O   ATOM 9668 CB ASP C 339 35.602 110.193 82.014 1.00 23.47 O   ATOM 9668 CB ASP C 339 35.602 110.193 82.014 1.00 23.47 O   ATOM 9671 CG ASP C 339 35.100 12.652 80.933 1.00 23.46 C   ATOM 9671 CG ASP C 339 35.100 12.652 80.933 1.00 23.46 C   ATOM 9671 CG ASP C 339 35.100 12.652 80.933 1.00 23.46 C   ATOM 9671 CG ASP C 339 35.130 112.652 80.933 1.00 23.46 C   ATOM 9673 OD2 ASP C 339 35.130 112.652 80.734 1.00 22.17 O   ATOM 9674 C ASP C 339 35.854 109.473 83.350 1.00 23.65 C   ATOM 9675 N ASP C 339 35.854 109.473 83.350 1.00 23.65 C   ATOM 9676 N ASP C 339 35.854 109.473 83.350 1.00 23.66 O   ATOM 9676 N ASP C 339 35.959 106.770 85.115 1.00 24.06 C   ATOM 9678 CA PHE C 340 35.010 108.468 83.663 1.00 23.67 N   ATOM 9680 CB PHE C 340 35.959 106.770 85.115 1.00 24.06 C   ATOM 9681 CG PHE C 340 33.959 106.770 85.115 1.00 24.12 C   ATOM 9688 CG PHE C 340 32.288 109.4738 83.500 1.00 25.77 C   ATOM 9680 CB PHE C 340 32.289 109.238 86.043 1.00 25.77 C   ATOM 9680 CB PHE C 340 32.899 107.498 85.895 1.00 24.96 C   ATOM 9680 CB PHE C 340 32.899 107.498 85.895 1.00 24.96 C   ATOM 9680 CB PHE C 340 32.899 107.498 85.895 1.00 26.07 C   ATOM 9680 CB PHE C 340 32.899 107.498 85.895 1.00 26.79 C   ATOM 9680 CB PHE C 340 32.899 107.498 85.895 1.00 26.79 C   ATOM 9680 CB PHE C 340 32.899 107.795 87.184 1.00 25.85 C   ATOM 9680 CB PHE C 340 32.899 107.795 87.184 1.00 25.85 C   ATOM 9690 CB PHE C 340 32.899 107.795 87.184 1.00 23.390 C   ATOM 9690 CB PHE C 340 32.899 107.795 87.898 1.00 23.390 N   ATOM 9700 CB HIS C 341 37.529 105.098 88.11 1.00 24.10 C   ATOM 9701 CB				ASP	С	338	34.643	107.216					
ATOM 9606 OD ASP C 338 34.563 106.254 77.431 1.00 23.50  ATOM 9661 OD2 ASP C 338 35.353 105.798 76.567 1.00 23.44  ATOM 9662 C ASP C 338 35.405.798 76.567 1.00 23.45  ATOM 9662 C ASP C 338 35.490 108.156 80.658 1.00 23.45  ATOM 9663 O ASP C 338 36.650 107.852 80.933 1.00 23.55  ATOM 9664 N ASP C 339 34.929 109.297 81.064 1.00 23.40 N  ATOM 9666 CA ASP C 339 35.602 110.193 82.014 1.00 23.40 N  ATOM 9666 CA ASP C 339 35.602 110.193 82.014 1.00 23.40 N  ATOM 9666 CA ASP C 339 35.602 110.193 82.014 1.00 23.47 C  ATOM 9671 CG ASP C 339 35.130 112.652 80.058 1.00 23.37 C  ATOM 9672 OD1 ASP C 339 36.252 112.652 81.294 1.00 23.37 C  ATOM 9673 OD2 ASP C 339 36.252 112.652 81.294 1.00 23.37 C  ATOM 9674 C ASP C 339 36.789 109.473 83.350 1.00 23.65 C  ATOM 9676 N PHE C 340 35.104 108.483 83.663 1.00 23.66 C  ATOM 9678 C APE C 340 35.214 107.611 84.826 1.00 24.06 C  ATOM 9678 C C BPE C 340 35.914 107.615 84.92 1.00 23.87 N  ATOM 9678 C C BPE C 340 35.914 107.615 84.92 1.00 24.10 C  ATOM 9688 C C BPE C 340 35.214 107.611 84.826 1.00 24.06 C  ATOM 9688 C C PHE C 340 35.214 107.611 84.826 1.00 24.06 C  ATOM 9688 C C PHE C 340 31.919 109.823 86.043 1.00 23.65 C  ATOM 9688 C C PHE C 340 31.919 109.838 86.043 1.00 23.77 C  ATOM 9688 C C PHE C 340 31.919 109.838 86.043 1.00 23.65 C  ATOM 9689 C C PHE C 340 31.919 109.838 86.043 1.00 24.06 C  ATOM 9690 C C PHE C 340 31.291 109.238 86.043 1.00 24.06 C  ATOM 9690 C C 2 PHE C 340 31.515 107.095 87.325 1.00 26.79 C  ATOM 9690 C 2 PHE C 340 31.515 107.095 87.325 1.00 26.79 C  ATOM 9690 C 2 PHE C 340 31.515 107.095 87.385 1.00 24.196 C  ATOM 9690 C 2 PHE C 340 31.515 107.095 87.385 1.00 23.79 C  ATOM 9690 C 2 PHE C 340 31.515 107.095 87.385 1.00 23.79 C  ATOM 9690 C 2 PHE C 340 31.515 107.095 87.385 1.00 23.79 C  ATOM 9701 C B HIS C 341 38.295 100.883 87.995 1.00 23.79 C  ATOM 9702 C B HIS C 341 39.891 105.167 83.991 1.00 23.79 C  ATOM 9703 C B HIS C 341 39.891 105.167 83.911 1.00 24.10 C  ATOM 9704 ND HIS C 341 39.891 105.167 83.911 1.00 24.20 C  ATOM 9704 ND HIS C 341 39.891 105.167 8							35.028	107.408	78.310				
ATOM 9661 OD2 ASP C 338 35.353 105.798 76.567 1.00 23.44 OD ATOM 9662 C ASP C 338 33.425 105.740 77.531 1.00 23.45 C ATOM 9663 O ASP C 338 36.650 107.852 80.933 1.00 23.45 C ATOM 9664 N ASP C 339 34.929 109.297 81.064 1.00 23.46 C ATOM 9666 CA ASP C 339 35.602 110.193 82.014 1.00 23.46 C ATOM 9668 CB ASP C 339 35.602 110.193 82.014 1.00 23.46 C ATOM 9668 CB ASP C 339 35.602 110.193 82.014 1.00 23.46 C ATOM 9668 CB ASP C 339 35.602 110.193 82.014 1.00 23.46 C ATOM 9668 CB ASP C 339 35.103 112.612 81.294 1.00 23.37 C ATOM 9671 CG ASP C 339 35.103 112.612 81.294 1.00 23.32 C ATOM 9673 OD2 ASP C 339 35.854 109.473 83.350 1.00 22.17 OD ATOM 9674 C ASP C 339 36.252 112.652 80.734 1.00 22.17 OD ATOM 9674 C ASP C 339 36.252 112.652 80.734 1.00 22.99 OD ATOM 9676 N PHE C 340 35.010 108.483 83.563 1.00 23.65 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.67 N ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.67 N ATOM 9678 CA PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.899 107.498 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.899 107.498 85.395 1.00 24.96 C ATOM 9680 CB PHE C 340 32.899 107.498 85.395 1.00 24.96 C ATOM 9680 CB PHE C 340 32.899 107.498 85.395 1.00 24.96 C ATOM 9680 CB PHE C 340 32.899 107.498 85.395 1.00 24.96 C ATOM 9680 CB PHE C 340 32.899 107.498 85.395 1.00 26.79 C ATOM 9680 CB PHE C 340 32.595 108.832 87.325 1.00 26.79 C ATOM 9680 CB PHE C 340 32.595 108.832 87.325 1.00 26.79 C ATOM 9680 CB PHE C 340 32.595 108.832 87.325 1.00 26.79 C ATOM 9690 CB PHE C 340 32.595 108.832 87.325 1.00 26.79 C ATOM 9690 CB CB PHE C 340 32.595 108.832 87.325 1.00 26.79 C ATOM 9690 CB CB PHE C 340 32.595 108.832 87.325 1.00 26.79 C ATOM 9700 CB HIS C 341 37.529 105.098 83.113 1.00 24.10 C C ATOM 9700 CB HIS C 341 37.529 105.098 83.131 1.00 23.70 C ATOM 9700 CB HIS C 341 37.529 105.098 83.131 1.00 23.39 N N ATOM 9700 CB HIS C 341 38.890 105.781 83.991 1.00 23.39 N N ATOM 9700 CB HIS C 341 39.891 105.66 67 84.595 1.00 23.39 N N AT							34.563	106.254				•	Č
ATOM 9662 C ASP C 338 35.490 100.156 80.581 1.00 23.45 C ATOM 9663 O ASP C 338 36.650 107.852 80.933 1.00 23.52 O ATOM 9666 CA ASP C 339 34.929 109.297 81.064 1.00 23.46 C ATOM 9666 CA ASP C 339 34.929 109.297 81.064 1.00 23.40 N ATOM 9668 CB ASP C 339 35.602 110.193 82.014 1.00 23.40 N ATOM 9671 CG ASP C 339 35.130 112.612 81.294 1.00 23.37 C ATOM 9671 CG ASP C 339 35.130 112.612 81.294 1.00 23.37 C ATOM 9672 ODI ASP C 339 36.252 112.652 80.734 1.00 23.23 C ATOM 9673 ODZ ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9673 ODZ ASP C 339 36.789 109.823 84.083 1.00 23.65 ATOM 9674 C ASP C 339 36.789 109.823 84.083 1.00 23.65 ATOM 9675 O ASP C 339 36.789 109.823 84.083 1.00 23.65 ATOM 9676 N PHE C 340 35.214 107.611 84.826 1.00 23.87 N ATOM 9678 C APHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9678 C APHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9686 CEI PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 25.77 C C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 25.77 C C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 25.77 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 25.77 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 25.77 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 25.79 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 25.79 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 25.79 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 23.95 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 23.95 C C ATOM 9690 CE PHE C 340 31.219 109.238 86.043 1.00 23.95 C C ATOM 9690 C CE PHE C 340 31.219 109.238 86.043 1.00 23.95 C C ATOM 9690 C CE PHE C 340 31.219 109.238 86.043 1.00 23.95 C C ATOM 9700 CB HIS C 341 38.254 100.289 81.324 1.00 23.95 C C ATOM 9700 CB HIS C 341 38.254 100.289 81.324 1.00 23.95 C C ATOM 9700 CB HIS C 341 39.245 100.289 81.324 1.00 23.95 N ATOM 9700 CB HIS C 341 39.291 100.298 81.306 1.00 23.95 N ATOM 9700 CB HIS C 341 39.291 100.00 23.99 N							35.353	105.798					0
ATOM 9663 O ASP C 338 36.650 107.852 80.933 1.00 23.52 O ATOM 9666 CA ASP C 339 34.929 109.297 81.064 1.00 23.46 C ATOM 9668 CB ASP C 339 35.602 110.193 82.014 1.00 23.46 C ATOM 9671 CG ASP C 339 35.602 110.193 82.014 1.00 23.46 C ATOM 9671 CG ASP C 339 35.602 110.193 82.014 1.00 23.37 C ATOM 9671 CG ASP C 339 35.602 110.193 82.260 1.00 23.37 C ATOM 9672 ODI ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9673 ODZ ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9673 ODZ ASP C 339 36.252 112.652 80.734 1.00 22.19 O ATOM 9674 C ASP C 339 36.854 109.473 83.350 1.00 23.65 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.64 O ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.67 N ATOM 9678 CA PHE C 340 35.214 107.611 84.866 1.00 24.06 C ATOM 9680 CB PHE C 340 33.959 107.498 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.12 C ATOM 9686 CE PHE C 340 32.208 108.569 85.336 1.00 25.77 C ATOM 9686 CE PHE C 340 32.208 108.569 85.336 1.00 25.77 C ATOM 9686 CE PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9680 CE PHE C 340 31.259 109.238 86.043 1.00 26.02 C ATOM 9696 CE PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9694 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9696 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9696 N HIS C 341 37.295 104.356 81.795 81.100 23.99 C ATOM 9696 C PHE C 340 36.405 106.676 84.595 1.00 23.99 C ATOM 9696 C PHE C 340 36.405 106.676 84.595 1.00 23.99 C ATOM 9700 C B HIS C 341 37.295 104.356 81.795 81.500 24.03 N ATOM 9696 C PHE C 340 32.208 108.595 105.09 83.113 1.00 24.10 C ATOM 9700 C B HIS C 341 39.295 105.098 83.113 1.00 24.10 C ATOM 9700 C B HIS C 341 39.295 105.098 83.113 1.00 24.10 C ATOM 9700 C B HIS C 341 39.295 105.098 83.113 1.00 24.10 C ATOM 9700 C B HIS C 341 39.295 105.098 83.113 1.00 24.03 N ATOM 9700 C B HIS C 341 39.295 105.098 83.113 1.00 24.10 C 23.99 C ATOM 9714 N ARG C 342 39.995 105.098 81.992 1.00 23.99 N N N ATOM 9700 C A ARG C 342 39.995 100.908 77.164 1.00 2							33.425 35 490	105.740		1.00	23.90		
ATOM 9664 N ASP C 339 34,929 109.297 81.064 1.00 23.46 N ATOM 9666 CA ASP C 339 34.784 11.1473 82.260 1.00 23.47 C ATOM 9671 CG ASP C 339 34.784 11.1473 82.260 1.00 23.37 C ATOM 9672 ODI ASP C 339 35.130 112.612 81.294 1.00 23.37 C ATOM 9673 OD2 ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9674 C ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9675 O ASP C 339 36.252 112.652 80.734 1.00 22.90 O ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.655 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.65 C ATOM 9676 N PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9686 CE PHE C 340 31.219 109.238 86.043 1.00 24.12 C ATOM 9686 CE PHE C 340 31.219 109.238 86.043 1.00 24.02 C ATOM 9696 CE PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9698 CE PHE C 340 31.259 106.70 85.115 1.00 24.02 C ATOM 9698 CE PHE C 340 31.259 107.498 85.895 1.00 24.96 C ATOM 9698 CE PHE C 340 31.259 107.998 86.043 1.00 26.02 C ATOM 9698 CE PHE C 340 31.259 107.998 86.043 1.00 26.79 C ATOM 9698 CE PHE C 340 31.558 108.832 87.325 1.00 26.79 C ATOM 9690 CE PHE C 340 31.559 107.095 87.184 1.00 25.95 C ATOM 9691 CB PHE C 340 31.559 107.095 87.184 1.00 23.95 C ATOM 9692 CD2 PHE C 340 31.559 107.095 87.184 1.00 23.95 C ATOM 9695 C PHE C 340 37.273 106.540 85.461 1.00 23.70 O ATOM 9700 CB HIS C 341 37.273 106.540 85.461 1.00 23.79 C ATOM 9698 CA HIS C 341 37.529 105.098 83.113 1.00 24.10 C ATOM 9700 CB HIS C 341 38.254 103.225 81.578 1.00 23.95 C ATOM 9701 CB HIS C 341 38.254 103.225 81.578 1.00 23.95 C ATOM 9708 NEZ HIS C 341 39.245 101.298 81.992 1.00 23.56 C ATOM 9701 CB HIS C 341 39.245 101.298 81.992 1.00 23.79 C ATOM 9708 NEZ HIS C 341 39.245 101.298 81.992 1.00 23.79 C ATOM 9714 N ARG C 342 39.962 109.101 81.726 1.00 23.79 C ATOM 9718 CB ARG C 342 39.962 109.101 81.726 1.00 23.79 C ATOM 9718 CB ARG C 342 39.962 109.879 77.164 1.00 23.95 N ATOM 9718 CB ARG C 342 39.963 109.879 77.164 1.00 23.95 N ATOM 9738 N ALA C 3							36.650	107.852					
ATOM 9666 CA ASP C 339 35.602 110.193 82.014 1.00 23.46 C ATOM 9671 CG ASP C 339 35.130 112.612 81.294 1.00 23.23 C C ATOM 9672 ODI ASP C 339 36.252 112.652 80.734 1.00 23.23 C C ATOM 9673 ODI ASP C 339 36.252 112.652 80.734 1.00 22.27 O ATOM 9674 C ASP C 339 36.854 109.473 83.350 1.00 23.65 C ATOM 9676 C ASP C 339 36.789 109.823 84.083 1.00 23.64 O ATOM 9676 C ASP C 339 36.789 109.823 84.083 1.00 23.65 C ATOM 9676 C ASP C 339 36.789 109.823 84.826 1.00 24.06 C ATOM 9678 CA FHE C 340 35.010 108.483 83.663 1.00 24.06 C ATOM 9680 CB FHE C 340 33.959 106.770 85.115 1.00 24.12 C ATOM 9680 CB FHE C 340 33.959 106.770 85.115 1.00 24.96 C ATOM 9684 CD FHE C 340 32.208 108.569 85.336 1.00 25.77 C C ATOM 9686 CB FHE C 340 32.208 108.569 85.336 1.00 26.79 C C ATOM 9688 C FHE C 340 31.219 109.238 86.043 1.00 26.79 C C ATOM 9690 CE2 FHE C 340 31.558 107.754 87.898 1.00 26.79 C C ATOM 9690 CE2 FHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CE2 FHE C 340 32.549 107.095 87.184 1.00 25.85 C ATOM 9696 C B FHE C 340 32.549 107.095 87.184 1.00 25.85 C ATOM 9696 C B FHE C 340 33.558 107.754 87.898 1.00 26.79 C ATOM 9696 C B FHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9696 C B FHE C 340 37.273 106.540 85.461 1.00 25.85 C ATOM 9696 C B FHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9696 C B FHE C 340 32.549 107.095 87.184 1.00 23.95 C ATOM 9696 C B FHE C 340 32.549 107.095 87.184 1.00 23.95 C ATOM 9696 C B FHE C 340 32.549 107.095 87.184 1.00 23.95 C ATOM 9696 C B FHE C 340 32.549 107.095 87.184 1.00 23.95 C ATOM 9696 C B FHE C 340 32.549 107.095 87.184 1.00 23.95 C ATOM 9700 C B HIS C 341 37.293 106.540 85.461 1.00 23.70 C C ATOM 9700 C B HIS C 341 37.293 106.808 89.19 100 23.99 N N ATOM 9700 C B HIS C 341 38.295 102.188 82.399 1.00 23.99 N N ATOM 9700 C B HIS C 341 38.295 102.188 82.399 1.00 23.99 N N ATOM 9700 C B HIS C 341 39.891 105.167 83.442 1.00 24.20 C ATOM 9712 C ARG C 342 39.982 108.917 70.750 82.665 1.00 23.74 C C ATOM 9730 N HI ARG C 342 39.991 105.167 83.442 1.00 24.75 C ATOM 9730 N HI ARG C 342 39.992			N	ASP	С	339	34.929	109.297					
ATOM 9667 CB ASP C 339 34.784 111.473 82.260 1.00 23.37 C ATOM 9672 CD ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9673 OD2 ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9673 OD2 ASP C 339 36.252 112.652 80.734 1.00 22.17 O ATOM 9676 C ASP C 339 34.322 113.536 81.054 1.00 22.90 O ATOM 9676 C ASP C 339 34.322 113.536 81.054 1.00 23.65 C ATOM 9676 C ASP C 339 36.789 109.823 84.083 1.00 23.65 C ATOM 9676 C ASP C 339 36.789 109.823 84.083 1.00 23.65 C ATOM 9678 CA PHE C 340 35.010 108.83 83.663 1.00 23.64 O ATOM 9678 CA PHE C 340 35.010 108.83 83.663 1.00 24.12 C ATOM 9680 CB PHE C 340 35.214 107.611 84.826 1.00 24.12 C ATOM 9684 CDI PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 25.77 C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9680 CE2 PHE C 340 31.558 107.54 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 31.558 107.54 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 31.558 107.54 87.898 1.00 26.79 C ATOM 9694 C PHE C 340 31.558 107.54 87.898 1.00 26.79 C ATOM 9696 C CD2 PHE C 340 31.558 107.54 87.898 1.00 23.95 C ATOM 9696 N HIS C 341 37.273 106.540 85.461 1.00 23.70 O ATOM 9696 N HIS C 341 37.295 104.356 81.795 1.00 24.03 N ATOM 9698 CA HIS C 341 37.295 104.356 81.795 1.00 23.99 C ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.99 N ATOM 9700 CB HIS C 341 38.295 104.136 81.795 1.00 23.99 N ATOM 9700 CB HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9706 CB1 HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9706 CB1 HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9701 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9701 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9701 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9701 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9701 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N N ATOM 9701 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.36 C C ATOM 9713 C ARG C 342 39.982 108.917 707.594 1.00 24.75 C C ATOM 9733 N NAI ARG C 342 39.982 108.917 707.594							35.602	110.193					
ATOM 9672 DDI ASP C 339 36.252 112.652 81.294 1.00 23.23 C ATOM 9673 DD ASP C 339 34.322 113.536 81.054 1.00 22.90 D ATOM 9674 C ASP C 339 34.322 113.536 81.054 1.00 22.90 D ATOM 9676 N PHE C 330 36.789 109.823 84.083 1.00 23.65 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.67 N ATOM 9678 CA PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 32.889 107.498 85.115 1.00 24.12 C ATOM 9684 CD PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9686 CD PHE C 340 32.808 107.98 85.336 1.00 25.77 C ATOM 9686 CD PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9688 CD PHE C 340 31.291 109.238 86.043 1.00 26.02 C ATOM 9688 CD PHE C 340 31.955 108.659 85.336 1.00 26.02 C ATOM 9690 CD2 PHE C 340 31.254 107.055 87.184 1.00 25.85 C ATOM 9690 CD2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CD2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CD2 PHE C 340 31.558 107.058 87.184 1.00 25.85 C ATOM 9695 N PHE C 340 31.254 107.955 87.184 1.00 25.85 C ATOM 9696 N PHE C 340 31.254 107.955 87.184 1.00 25.85 C ATOM 9695 N PHE C 340 31.254 107.955 87.184 1.00 25.85 C ATOM 9696 N PHE C 340 31.254 107.955 87.184 1.00 23.70 N ATOM 9696 N PHE C 340 31.254 107.955 87.184 1.00 23.70 N ATOM 9696 N PHE C 340 31.254 107.955 87.184 1.00 23.79 C ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.79 C ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.79 C ATOM 9700 CB HIS C 341 38.295 102.118 82.399 1.00 23.93 N ATOM 9700 CB HIS C 341 38.891 105.167 83.442 1.00 24.20 C ATOM 9712 C HIS C 341 38.895 105.167 83.442 1.00 24.20 C ATOM 9713 C HIS C 341 38.895 105.167 83.442 1.00 24.20 C ATOM 9713 C HIS C 341 38.895 105.167 83.442 1.00 24.20 C ATOM 9713 C HIS C 341 38.895 105.167 83.442 1.00 24.20 C ATOM 9713 C HIS C 341 38.895 105.167 83.442 1.00 24.75 C ATOM 9713 C HIS C 341 38.895 105.167 83.442 1.00 24.75 C ATOM 9713 C HIS C 341 39.824 101.897 80.211 1.00 24.30 C ATOM 9713 C HIS C 341 39.891 105.167 83.442 1.00 24.75 C ATOM 9713 C HIS C 341 39.891 105.167 83.442 1.00 24.75 C ATOM 9713 C ARG C 342 39.992 1							34.784	111.473		1.00	23.37		
ATOM 9674 C ASP C 339 34.322 113.536 81.054 1.00 22.90 O ATOM 9676 CA ASP C 339 35.854 109.473 83.350 1.00 23.65 C ATOM 9676 CA PHE C 340 35.010 108.483 83.663 1.00 23.867 N ATOM 9678 CA PHE C 340 35.010 108.483 83.663 1.00 23.887 N ATOM 9680 CB PHE C 340 35.910 108.483 83.663 1.00 24.06 C ATOM 9680 CB PHE C 340 32.889 107.70 85.115 1.00 24.12 C ATOM 9680 CB PHE C 340 32.288 108.569 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.288 108.569 85.336 1.00 25.77 C ATOM 9680 CB PHE C 340 32.288 108.569 85.336 1.00 25.77 C ATOM 9680 CB PHE C 340 31.219 109.238 86.043 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.219 109.238 86.043 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 C CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 C CE2 PHE C 340 31.558 107.754 87.898 1.00 25.79 C ATOM 9690 C CE2 PHE C 340 31.558 107.754 87.898 1.00 25.79 C ATOM 9690 C CE2 PHE C 340 31.558 107.754 87.898 1.00 25.79 C ATOM 9690 C CE2 PHE C 340 31.558 107.754 87.898 1.00 23.95 C C ATOM 9690 C PHE C 340 37.273 106.540 85.461 1.00 23.70 O ATOM 9691 C PHE C 340 37.273 106.540 85.461 1.00 23.70 O ATOM 9698 CA HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 36.443 106.31 83.428 1.00 24.03 N ATOM 9700 CB HIS C 341 36.443 106.258 81.795 1.00 23.96 C ATOM 9700 CB HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9700 N HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9700 N HIS C 341 38.295 102.188 82.399 1.00 23.399 N ATOM 9704 NDI HIS C 341 39.225 101.298 81.992 1.00 23.399 N ATOM 9704 NDI HIS C 341 39.225 101.298 81.992 1.00 23.399 N ATOM 9704 NDI HIS C 341 39.223 103.046 80.657 1.00 23.74 C C ATOM 9712 C HIS C 341 39.281 101.298 81.992 1.00 23.399 N ATOM 9708 NEZ HIS C 341 39.293 103.046 80.657 1.00 23.74 C C ATOM 9712 C HIS C 341 39.891 105.167 83.442 1.00 24.20 C ATOM 9713 O ARG C 342 39.991 109.076 78.021 1.00 23.56 C ATOM 9714 C ARG C 342 39.991 109.076 78.021 1.00 23.55 C C ATOM 9730 NH1 ARG C 342 39.992 109.076 78.021 1.00 22.76 N ATOM 9730 NH1 ARG C 342 39.991 109.06 84.011 1.00													C
ATOM 9674 C ASP C 339 35.854 109.473 83.350 1.00 23.65 C ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.864 N ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.867 N ATOM 9678 CA PHE C 340 35.214 107.611 84.826 1.00 24.06 C ATOM 9680 CB PHE C 340 33.959 106.770 85.115 1.00 24.12 C ATOM 9680 CB PHE C 340 32.2889 107.498 85.895 1.00 24.966 C ATOM 9684 CDI PHE C 340 31.219 109.238 86.043 1.00 23.677 C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9688 CE2 PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9690 CE2 PHE C 340 31.858 107.549 87.325 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.558 87.184 1.00 25.85 C ATOM 9690 CE2 PHE C 340 31.558 107.598 87.184 1.00 25.85 C ATOM 9695 C PHE C 340 37.273 106.676 84.595 1.00 23.70 C ATOM 9696 C PHE C 340 37.273 106.676 84.595 1.00 23.70 C ATOM 9696 C PHE C 340 37.273 106.540 85.461 1.00 23.70 C ATOM 9698 CA HIS C 341 37.295 104.356 81.795 1.00 23.95 C ATOM 9698 CA HIS C 341 37.529 105.098 83.113 1.00 24.10 C ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.79 C ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.79 C ATOM 9700 CB HIS C 341 38.255 102.118 82.399 1.00 23.97 N ATOM 9701 CD HIS C 341 38.255 102.118 82.399 1.00 23.56 C ATOM 9708 NEZ HIS C 341 38.295 102.118 82.399 1.00 23.93 N ATOM 9708 NEZ HIS C 341 38.891 105.781 83.092 1.00 23.56 C ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.20 C ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.75 C ATOM 9714 N ARG C 342 39.981 105.167 83.442 1.00 24.20 C ATOM 9714 N ARG C 342 39.981 105.167 83.442 1.00 24.20 C ATOM 9714 N ARG C 342 39.981 105.167 83.492 1.00 23.388 C ATOM 9713 C ARG C 342 39.981 105.167 83.492 1.00 23.388 C ATOM 9714 N ARG C 342 39.991 105.167 83.492 1.00 23.388 C ATOM 9714 N ARG C 342 39.991 105.167 83.492 1.00 23.365 N ATOM 9715 CA ARG C 342 39.991 105.167 83.492 1.00 23.55 C ATOM 9713 N ARG C 342 39.991 105.167 83.492 1.00 23.55 C ATOM 9738 N ARG C 342 39.999 109.706 78.021 1.00 23.55 C ATOM 9738 N ARG C 342 39.999 109.706 78.021 1.00 23.55 C ATOM 9738 N ARG							30.232	112.652	80.734				
ATOM 9675 O ASP C 339 36.789 100.823 84.083 1.00 23.64 N ATOM 9676 N PHE C 340 35.010 108.483 83.663 1.00 23.87 N ATOM 9680 CB PHE C 340 35.010 108.483 83.663 1.00 23.87 N ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.12 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 25.77 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 25.77 C ATOM 9680 CB PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9680 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9695 O PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9695 O PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9696 N HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 37.225 104.356 81.795 1.00 23.70 O ATOM 9700 CB HIS C 341 37.225 104.356 81.795 1.00 23.79 C ATOM 9700 CB HIS C 341 37.225 104.356 81.795 1.00 23.79 C ATOM 9700 CB HIS C 341 38.254 103.225 81.578 1.00 23.93 N ATOM 9706 CE1 HIS C 341 38.295 102.118 82.339 1.00 24.10 C ATOM 9708 NEZ HIS C 341 39.2245 101.298 81.992 1.00 23.93 N ATOM 9708 NEZ HIS C 341 39.8245 101.298 81.992 1.00 23.93 N ATOM 9710 CD2 HIS C 341 39.8245 101.298 81.992 1.00 23.39 N ATOM 9711 O CD2 HIS C 341 39.8245 101.887 80.927 1.00 23.39 N ATOM 9712 C HIS C 341 39.891 105.167 83.442 1.00 24.75 C ATOM 9713 O HIS C 341 39.891 105.167 83.442 1.00 24.75 C ATOM 9714 N ARG C 342 39.995 109.706 78.021 1.00 23.45 N ATOM 9716 CA ARG C 342 39.995 109.706 78.021 1.00 23.21 N ATOM 9718 CB ARG C 342 39.995 109.706 78.021 1.00 23.21 N ATOM 9730 NH1 ARG C 342 39.095 109.887 79.471 1.00 23.88 C ATOM 9730 NH1 ARG C 342 39.095 109.876 75.941 1.00 23.21 N ATOM 9730 NH1 ARG C 342 39.095 109.706 78.021 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.095 109.706 78.021 1.00 25.55 N ATOM 9730 NH1 ARG C 342 39.095 109.706 78.021 1.00 25.56 C ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 25.55 N ATOM							35.854	109.473					
ATOM 9678 CA PHE C 340 35.010 108.483 83.663 1.00 23.87 N ATOM 9680 CB PHE C 340 33.959 106.770 85.115 1.00 24.06 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9680 CB PHE C 340 32.889 107.498 85.336 1.00 25.97 C ATOM 9680 CB PHE C 340 32.208 108.559 85.336 1.00 25.97 C ATOM 9680 CB PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9680 CZ PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 32.549 107.095 87.184 1.00 25.85 C ATOM 9694 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9696 N IIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9696 N IIS C 341 37.529 105.098 83.113 1.00 24.03 N ATOM 9696 N IIS C 341 37.529 105.098 83.113 1.00 24.03 N ATOM 9700 CB HIS C 341 37.529 104.356 81.795 1.00 23.96 C ATOM 9700 CB HIS C 341 38.295 102.118 82.399 1.00 23.96 C ATOM 9706 CEI HIS C 341 39.223 103.046 80.657 1.00 23.79 C ATOM 9706 CEI HIS C 341 39.223 103.046 80.657 1.00 23.39 N ATOM 9706 CB HIS C 341 39.223 105.676 83.422 1.00 24.22 C ATOM 9712 C HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.829 1.00 23.56 C ATOM 9710 CD2 HIS C 341 39.829 1.00 23.56 C ATOM 9710 CD2 HIS C 341 39.829 1.00 23.56 C ATOM 9710 CD2 HIS C 341 39.829 1.00 23.56 C ATOM 9710 CD2 HIS C 341 39.829 1.00 25.56 N ATOM 9720 C ARG C 342 39.992 109.706 78.021 1.00 23.58 N ATOM 9730 NH ARG C 3	MOTA	9675	0				36.789	109.823					
ATOM 9680 CB PHE C 340 35.214 107.611 8.26 1.00 24.06 C C ATOM 9683 CG PHE C 340 32.889 107.498 85.895 1.00 24.12 C C ATOM 9684 CD1 PHE C 340 32.208 108.569 85.336 1.00 25.77 C C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 25.77 C C ATOM 9686 CEI PHE C 340 31.219 109.238 86.043 1.00 25.77 C C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 25.85 C C ATOM 9695 CP PHE C 340 32.549 107.095 87.184 1.00 25.85 C C ATOM 9695 CP PHE C 340 36.405 106.676 84.595 1.00 23.70 O ATOM 9696 CP PHE C 340 36.405 106.676 84.595 1.00 23.70 O ATOM 9698 CA HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 37.255 104.356 81.795 1.00 24.03 N ATOM 9700 CB HIS C 341 37.255 104.356 81.795 1.00 23.79 C ATOM 9700 CB HIS C 341 38.254 103.225 81.578 1.00 23.79 C ATOM 9704 NDI HIS C 341 38.255 101.298 81.982 1.00 23.79 C ATOM 9708 NE2 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9708 NE2 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9710 CD HIS C 341 39.283 103.046 80.657 1.00 23.39 N ATOM 9710 CD HIS C 341 39.283 103.046 80.657 1.00 23.37 N N ATOM 9710 CD HIS C 341 39.283 103.046 80.657 1.00 23.37 N N ATOM 9710 CD HIS C 341 39.283 103.567 1.00 23.37 N N ATOM 9710 CD HIS C 341 39.283 103.046 80.657 1.00 23.37 N N ATOM 9710 CD HIS C 341 39.283 103.046 80.657 1.00 23.37 N N ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.20 C ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9714 CA ARG C 342 39.984 109.101 81.726 1.00 24.50 N ATOM 9724 CD ARG C 342 39.985 108.917 80.211 1.00 24.30 C ATOM 9733 NH2 ARG C 342 39.985 108.917 80.211 1.00 24.30 C ATOM 9738 NH2 ARG C 342 39.985 108.917 80.211 1.00 24.30 C ATOM 9738 NH2 ARG C 342 39.985 108.917 80.211 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.985 108.917 80.211 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.985 108.917 80.211 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.985 109.85 79.471 1.00 23.58 C ATOM 9730 NH1 ARG C 342 39.985 109.885 79.471 1.00 23.58 N ATOM 9730 NH1 ARG C 342 39.999 109.706 88.991							35.010	108.483		1.00	23.87		
ATOM 9683 CG PHE C 340 32.889 107.498 85.895 1.00 24.12 C ATOM 9684 CD1 PHE C 340 32.889 107.498 85.895 1.00 24.96 C ATOM 9686 CE1 PHE C 340 31.219 109.238 86.043 1.00 25.77 C ATOM 9686 CE1 PHE C 340 31.219 109.238 86.043 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 31.558 107.754 87.898 1.00 25.85 C ATOM 9695 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9695 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9696 N HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 37.295 104.356 81.795 1.00 23.70 O ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.95 C ATOM 9700 CB HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9704 ND1 HIS C 341 38.255 102.118 82.399 1.00 23.93 N ATOM 9708 CE1 HIS C 341 38.255 102.118 82.399 1.00 23.96 C ATOM 9706 CE1 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9710 CD2 HIS C 341 39.285 101.298 81.982 1.00 23.36 C ATOM 9710 CD2 HIS C 341 39.285 101.298 81.982 1.00 23.36 C ATOM 9710 CD2 HIS C 341 39.283 103.046 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.283 103.046 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.283 103.046 80.927 1.00 23.374 C ATOM 9712 C HIS C 341 39.283 103.046 80.927 1.00 23.374 C ATOM 9712 C ATOM 9713 O HIS C 341 39.291 105.167 81 83.078 1.00 24.20 C ATOM 9714 N ARG C 342 39.991 105.167 82.6657 1.00 24.75 C ATOM 9724 CD ARG C 342 39.995 109.907 67 78.021 1.00 24.75 C ATOM 9724 CD ARG C 342 39.995 109.907 67 78.021 1.00 23.38 C ATOM 9730 NH1 ARG C 342 39.995 109.917 77.594 1.00 23.05 C ATOM 9730 NH1 ARG C 342 39.995 109.895 79.471 1.00 23.05 C ATOM 9730 NH1 ARG C 342 39.995 109.895 79.471 1.00 23.05 C ATOM 9730 NH1 ARG C 342 39.995 109.895 79.471 1.00 23.05 C ATOM 9730 NH1 ARG C 342 39.991 105.167 88.291 100.025.03 C ATOM 9730 NH1 ARG C 342 39.991 105.167 88.291 100.025.03 C ATOM 9730 NH1 ARG C 342 39.991 105.100 88.391 100.025.03 C ATOM 9730 NH1 ARG C 3													
ATOM 9684 CD1 PHE C 340 32.208 108.569 85.336 1.00 25.77 C ATOM 9686 CE1 PHE C 340 31.219 109.238 86.043 1.00 26.02 C ATOM 9698 CZ PHE C 340 31.858 108.32 87.325 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 32.549 107.095 87.184 1.00 25.85 C ATOM 9694 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9695 O PHE C 340 37.273 106.540 85.461 1.00 23.70 O ATOM 9696 N HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 37.225 105.098 83.113 1.00 24.10 C ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.79 C ATOM 9703 CG HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9704 ND1 HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9706 CE1 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9708 NE2 HIS C 341 39.245 101.298 81.982 1.00 23.39 N ATOM 9708 NE2 HIS C 341 39.233 103.046 80.657 1.00 23.74 C ATOM 9712 C HIS C 341 39.233 103.046 80.657 1.00 23.74 C ATOM 9714 N ARG C 342 38.891 105.781 83.078 1.00 24.20 C ATOM 9718 CB ARG C 342 39.982 108.917 80.221 1.00 24.50 N ATOM 9718 CB ARG C 342 39.981 105.781 83.078 1.00 24.50 N ATOM 9718 CB ARG C 342 39.982 108.917 80.211 1.00 24.50 N ATOM 9728 N ARG C 342 39.982 108.917 80.211 1.00 24.50 N ATOM 9728 CD ARG C 342 39.982 108.917 80.211 1.00 24.50 N ATOM 9728 CD ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9728 CD ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9728 CD ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9729 CZ ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 23.45 N ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 24.50 N ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 23.05 C ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 25.28 N ATOM 9730 CA ARG C 342 38.383 110.057 75.862 1.00 25.56 C ATOM 9746 CA ARG C 342 39.982 108.917 80.211 1.00 25.28 N ATOM 9730 NH ARG C 342 39.983 100.055 75.862 1.00 25.56 C ATOM 9746 CA ALA C 343 39.917 108.330 84.994 1.00 25.55 C ATOM 9746 CA ALA C 343 39.917 108.330 84.994 1.00 25.55 C ATOM 9746 C													С
ATOM 9686 CE1 PHE C 340 31.219 109.238 86.043 1.00 26.79 C ATOM 9688 CZ PHE C 340 30.895 108.832 87.325 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9690 CD2 PHE C 340 32.549 107.095 87.184 1.00 25.85 C ATOM 9694 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9695 O PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9696 N HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 37.529 105.098 83.113 1.00 24.10 C ATOM 9700 CB HIS C 341 37.529 105.098 83.113 1.00 24.10 C ATOM 9704 ND1 HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9704 ND1 HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9706 CE1 HIS C 341 39.825 102.118 82.399 1.00 23.93 N ATOM 9706 CE1 HIS C 341 39.825 102.118 82.399 1.00 23.393 N ATOM 9710 CD2 HIS C 341 39.825 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.74 C ATOM 9714 N ARG C 342 38.891 105.167 83.442 1.00 24.22 O ATOM 9714 N ARG C 342 38.891 105.167 83.442 1.00 24.22 O ATOM 9716 CA ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9712 CG ARG C 342 39.954 109.101 81.726 1.00 23.45 N ATOM 9712 CG ARG C 342 39.954 109.101 81.726 1.00 23.45 N ATOM 9724 CD ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 23.45 N ATOM 9730 NH1 ARG C 342 39.982 108.917 80.211 1.00 23.45 N ATOM 9737 NA ARG C 342 39.982 108.917 80.211 1.00 23.45 N ATOM 9730 NH1 ARG C 342 39.995 109.885 79.471 1.00 23.88 C ATOM 9737 NA ARG C 342 39.995 109.885 79.471 1.00 23.56 N ATOM 9737 NA ARG C 342 39.995 109.706 78.021 1.00 23.45 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 25.51 N ATOM 9737 NA ARG C 342 39.995 109.706 78.021 1.00 25.51 N ATOM 9737 NA ARG C 342 39.995 109.706 78.021 1.00 25.55 C ATOM 9737 NA ALA C 343 39.917 108.321 86.320 1.00 25.55 C ATOM 9742 CB ALA C 343 39.917 108.321 86.930 1.00 25.55 C ATOM							32.889	107.498					С
ATOM 9688 CZ PHE C 340 30.885 108.832 87.325 1.00 26.79 C ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 32.549 107.095 87.184 1.00 25.85 C ATOM 9694 C PHE C 340 32.549 107.095 87.184 1.00 23.95 C ATOM 9695 O PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9695 O PHE C 340 37.273 106.540 85.461 1.00 23.70 O ATOM 9698 CA HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 37.529 105.098 83.113 1.00 24.10 C ATOM 9700 CB HIS C 341 37.529 104.356 81.795 1.00 23.96 C ATOM 9703 CG HIS C 341 38.295 102.118 82.399 1.00 23.96 C ATOM 9704 ND1 HIS C 341 38.295 102.118 82.399 1.00 23.96 C ATOM 9708 NE2 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9708 NE2 HIS C 341 39.235 103.046 80.657 1.00 23.74 C ATOM 9712 C HIS C 341 38.890 105.781 83.078 1.00 23.74 C ATOM 9712 C HIS C 341 38.891 105.167 83.078 1.00 23.74 C ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9715 CA ARG C 342 39.954 109.101 81.726 1.00 24.50 N ATOM 9716 CA ARG C 342 39.954 109.101 81.726 1.00 24.50 N ATOM 9716 CA ARG C 342 39.954 109.101 81.726 1.00 24.78 C ATOM 9727 NE ARG C 342 39.954 109.101 81.726 1.00 24.78 C ATOM 9727 NE ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9727 NE ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9730 NH1 ARG C 342 39.965 109.885 79.471 1.00 23.88 C ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.45 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.45 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.45 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.21 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.56 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.55 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 23.55 N ATOM 9730 NH1 ARG C 342 37.302 111.102 77.55 N ATOM 9730 NH1 ARG C 342 39.995 109.706 78.021 1.00 25.56 C ATOM 9746 C ARG							31.219	109.309					C
ATOM 9690 CE2 PHE C 340 31.558 107.754 87.898 1.00 26.79 C ATOM 9692 CD2 PHE C 340 32.549 107.095 87.184 1.00 25.85 C ATOM 9694 C PHE C 340 36.405 106.676 84.595 1.00 23.95 C ATOM 9695 O PHE C 340 36.405 106.676 84.595 1.00 23.70 O ATOM 9696 N HIS C 341 36.443 106.031 83.428 1.00 24.03 N ATOM 9698 CA HIS C 341 37.529 105.098 83.113 1.00 24.10 C ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.79 C ATOM 9703 CG HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9704 ND1 HIS C 341 38.295 102.118 82.399 1.00 23.996 C ATOM 9708 NE2 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9708 NE2 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.898 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.898 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.891 105.167 83.442 1.00 24.20 C ATOM 9713 O HIS C 341 39.891 105.167 83.442 1.00 24.20 O ATOM 9714 N ARG C 342 38.991 105.167 83.442 1.00 24.22 O ATOM 9715 CA ARG C 342 39.981 105.167 83.442 1.00 24.75 C ATOM 9716 CA ARG C 342 39.984 109.101 81.726 1.00 24.75 C ATOM 9720 CG ARG C 342 39.984 109.101 81.726 1.00 24.75 C ATOM 9721 CG ARG C 342 39.984 109.101 81.726 1.00 24.75 C ATOM 9724 CD ARG C 342 39.985 109.885 79.471 1.00 23.45 N ATOM 9727 NE ARG C 342 39.985 109.885 79.471 1.00 23.45 N ATOM 9727 NE ARG C 342 39.985 109.885 79.471 1.00 23.45 N ATOM 9730 NH1 ARG C 342 38.83 110.057 75.862 1.00 23.21 N ATOM 9737 NE ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.19 O ATOM 9737 NE ARG C 342 38.383 110.057 75.862 1.00 23.25 N ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.56 C ATOM 9734 CA ALA C 343 39.917 108.130 84.944 1.00 25.56 C ATOM 9734 CA ALA C 343 39.917 108.130 84.944 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.56 C ATOM 9746 CA ALA C 343 39.257 109.015 87.120 1.00 25.56 C ATOM 9748 N GLA C 343 39.257 109.015 86.201 1.00 25.56 C ATOM 9746 CA		9688	CZ	PHE	С	340							C
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ATOM 9700 CB HIS C 341 37.295 104.356 81.795 1.00 23.79 C ATOM 9703 CG HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9704 ND1 HIS C 341 38.295 102.118 82.399 1.00 23.93 N ATOM 9706 CE1 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9708 NE2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9712 C HIS C 341 39.891 105.781 83.078 1.00 24.20 C ATOM 9713 O HIS C 341 39.891 105.781 83.078 1.00 24.20 C ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.75 C ATOM 9718 CB ARG C 342 39.982 108.917 80.211 1.00 24.78 C ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9724 CD ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9727 NE ARG C 342 39.065 109.885 79.471 1.00 23.45 N ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9730 NH1 ARG C 342 38.260 110.288 79.471 1.00 23.45 N ATOM 9730 NH1 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9730 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9730 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9737 O ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.03 C ATOM 9738 N ALA C 343 39.917 108.321 86.320 1.00 25.58 N ATOM 9740 CA ALA C 343 39.917 108.321 86.320 1.00 25.51 C ATOM 9740 CA ALA C 343 39.917 108.321 86.320 1.00 25.55 C ATOM 9747 O ALA C 343 39.917 108.321 86.320 1.00 25.56 C ATOM 9747 O ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N							37.529	105.098					
ATOM 9703 CG HIS C 341 38.254 103.225 81.578 1.00 23.96 C ATOM 9704 ND1 HIS C 341 38.295 102.118 82.399 1.00 23.93 N ATOM 9706 CE1 HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9708 NE2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9711 C HIS C 341 39.828 101.837 80.927 1.00 23.74 C ATOM 9712 C HIS C 341 39.891 105.781 83.078 1.00 24.20 C ATOM 9713 O HIS C 341 39.891 105.167 83.442 1.00 24.22 O ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.75 C ATOM 9718 CB ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9721 CG ARG C 342 39.954 109.101 81.726 1.00 24.30 C ATOM 9724 CD ARG C 342 39.965 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.03 C ATOM 9738 N ALA C 343 39.917 108.321 86.320 1.00 25.56 C ATOM 9740 CA ALA C 343 39.957 108.321 86.320 1.00 25.55 C ATOM 9740 CA ALA C 343 39.257 109.015 87.120 1.00 25.56 C ATOM 9747 O ALA C 343 40.747 106.999 86.993 1.00 25.51 C ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 25.82 C ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 25.80 N							37.295	104.356					C
ATOM 9704 NDI HIS C 341 38.295 102.118 82.399 1.00 23.93 N ATOM 9708 NEZ HIS C 341 39.245 101.298 81.982 1.00 23.56 C ATOM 9708 NEZ HIS C 341 39.233 103.046 80.657 1.00 23.74 C ATOM 9710 CD2 HIS C 341 39.233 103.046 80.657 1.00 23.74 C ATOM 9712 C HIS C 341 38.890 105.781 83.078 1.00 24.20 C ATOM 9713 O HIS C 341 39.891 105.167 83.442 1.00 24.22 O ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.75 C ATOM 9718 CB ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9724 CD ARG C 342 39.065 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9730 NH1 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 23.05 C ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9737 O ARG C 342 39.917 108.130 84.944 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.56 C ATOM 9746 C ALA C 343 39.257 109.015 87.120 1.00 25.56 C ATOM 9746 C ALA C 343 39.257 109.015 87.120 1.00 25.56 C ATOM 9747 O ALA C 343 40.668 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08							38.254	103.225					
ATOM 9708 NE2 HIS C 341 39.828 101.837 80.927 1.00 23.39 N ATOM 9710 CD2 HIS C 341 39.233 103.046 80.657 1.00 23.74 C ATOM 9712 C HIS C 341 39.233 103.046 80.657 1.00 23.74 C ATOM 9713 O HIS C 341 39.891 105.781 83.078 1.00 24.20 C ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.78 C ATOM 9718 CB ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9721 CG ARG C 342 39.065 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9730 NH1 ARG C 342 38.260 110.288 77.164 1.00 23.45 N ATOM 9730 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9737 NEARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 39.257 109.015 87.120 1.00 25.56 C ATOM 9746 C ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9746 C ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9746 C ALA C 343 40.357 108.321 86.993 1.00 25.582 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.08 N										1.00	23.93		
ATOM 9710 CD2 HIS C 341 39.233 103.046 80.657 1.00 23.374 CD   ATOM 9712 C HIS C 341 38.890 105.781 83.078 1.00 24.20 CD   ATOM 9713 O HIS C 341 39.891 105.167 83.442 1.00 24.22 OD   ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 ND   ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.78 CD   ATOM 9718 CB ARG C 342 39.954 109.101 81.726 1.00 24.75 CD   ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 CD   ATOM 9724 CD ARG C 342 39.982 108.917 80.211 1.00 23.88 CD   ATOM 9727 NE ARG C 342 39.065 109.885 79.471 1.00 23.88 CD   ATOM 9729 CZ ARG C 342 39.099 109.706 78.021 1.00 23.45 ND   ATOM 9730 NH1 ARG C 342 38.260 110.288 77.164 1.00 23.05 CD   ATOM 9733 NH2 ARG C 342 37.302 111.102 77.594 1.00 22.76 ND   ATOM 9736 C ARG C 342 38.383 110.057 75.862 1.00 23.21 ND   ATOM 9737 O ARG C 342 40.753 108.175 83.910 1.00 25.03 CD   ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.19 OD   ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.55 CD   ATOM 9740 CA ALA C 343 39.917 108.130 84.944 1.00 25.55 CD   ATOM 9740 CA ALA C 343 39.917 108.130 84.944 1.00 25.55 CD   ATOM 9746 C ALA C 343 39.257 109.015 87.120 1.00 25.55 CD   ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 25.82 CD   ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N							39.245	101.298					
ATOM 9712 C HIS C 341 38.890 105.781 83.078 1.00 24.20 C ATOM 9713 O HIS C 341 39.891 105.167 83.442 1.00 24.22 O ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.75 ATOM 9711 CG ARG C 342 39.954 109.101 81.726 1.00 24.75 ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9724 CD ARG C 342 39.065 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 23.05 C ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9737 O ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9738 N ALA C 343 39.917 108.321 86.320 1.00 25.56 C ATOM 9740 CA ALA C 343 39.917 108.321 86.320 1.00 25.551 C ATOM 9746 C ALA C 343 40.357 108.321 86.320 1.00 25.551 C ATOM 9746 C ALA C 343 40.608 106.857 88.212 1.00 26.08 N							39.828	101.83/					
ATOM 9713 O HIS C 341 39.891 105.167 83.442 1.00 24.22 O ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.78 C ATOM 9718 CB ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9724 CD ARG C 342 39.065 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.095 109.706 78.021 1.00 23.45 N ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 23.05 C ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.55 C ATOM 9740 CA ALA C 343 39.917 108.321 86.320 1.00 25.55 C ATOM 9746 C ALA C 343 40.357 108.321 86.320 1.00 25.55 C ATOM 9746 C ALA C 343 40.357 108.321 86.320 1.00 25.55 C C ATOM 9746 C ALA C 343 40.357 108.857 88.212 1.00 25.51 C ATOM 9746 C ALA C 343 40.608 106.857 88.212 1.00 26.03 N N ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 25.08							38.890	105.781					
ATOM 9714 N ARG C 342 38.917 107.050 82.665 1.00 24.50 N   ATOM 9716 CA ARG C 342 40.166 107.816 82.544 1.00 24.78 C   ATOM 9718 CB ARG C 342 39.954 109.101 81.726 1.00 24.75 C   ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C   ATOM 9724 CD ARG C 342 39.065 109.885 79.471 1.00 23.88 C   ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N   ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C   ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 22.76 N   ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N   ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C   ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.03 C   ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N   ATOM 9740 CA ALA C 343 39.917 108.130 84.944 1.00 25.28 N   ATOM 9740 CA ALA C 343 39.257 109.015 87.120 1.00 25.56 C   ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 N   ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N			0	HIS	С	341	39.891	105.167					
ATOM 9718 CB ARG C 342 39.954 109.101 81.726 1.00 24.75 C ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9724 CD ARG C 342 39.065 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 22.76 N ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 39.917 108.130 84.944 1.00 25.56 C ATOM 9740 CA ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.357 108.321 86.320 1.00 25.51 C ATOM 9747 O ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08							38.917	107.050	82.665	1.00	24.50		
ATOM 9721 CG ARG C 342 39.982 108.917 80.211 1.00 24.30 C ATOM 9724 CD ARG C 342 39.065 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 22.76 N ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08													C
ATOM 9724 CD ARG C 342 39.065 109.885 79.471 1.00 23.88 C ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 22.76 N ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 39.917 108.130 84.944 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.357 108.321 86.320 1.00 25.51 C ATOM 9747 O ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08													
ATOM 9727 NE ARG C 342 39.099 109.706 78.021 1.00 23.45 N ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 22.76 N ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08							39.362	108.917					C
ATOM 9729 CZ ARG C 342 38.260 110.288 77.164 1.00 23.05 C ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 22.76 N ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 N ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08							39.099	109.706					
ATOM 9730 NH1 ARG C 342 37.302 111.102 77.594 1.00 22.76 N ATOM 9733 NH2 ARG C 342 38.383 110.057 75.862 1.00 23.21 N ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 25.03 C ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N				ARG	C	342	38.260	110.288					
ATOM 9736 C ARG C 342 40.753 108.175 83.910 1.00 23.21 N ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N							37.302	111.102					
ATOM 9737 O ARG C 342 41.938 108.496 84.014 1.00 25.19 O ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N							38.383	110.057		1.00	23.21		
ATOM 9738 N ALA C 343 39.917 108.130 84.944 1.00 25.28 N ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N							40.753	108.175					
ATOM 9740 CA ALA C 343 40.357 108.321 86.320 1.00 25.56 C ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N							39.917	108.496					
ATOM 9742 CB ALA C 343 39.257 109.015 87.120 1.00 25.51 C ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N	MOTA						40.357	108.321					
ATOM 9746 C ALA C 343 40.747 106.999 86.993 1.00 25.82 C ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N				ALA	С	343	39.257	109.015					
ATOM 9747 O ALA C 343 40.608 106.857 88.212 1.00 26.03 O ATOM 9748 N GLY C 344 41.221 106.037 86.201 1.00 26.08 N							40.747	106.999	86.993	1.00	25.82		
7mov 0750 cm cm 20.00 N							40.608	106.857		1.00	26.03		0
TI. (13 104.191 00.110 1.00 26.38 C													
								-04.131	30.710	1.00	20.38		·

ATOM	9753	С	GLY C	344	40 920	103.917	07 507	
ATOM	9754	ō	GLY C		40.023	2 103.369	87.507	1.00 26.78
ATOM	9755	Ŋ	LEU C		39.592		88.538	1.00 26.80
ATOM	9757	CA	LEU C				87.031	1.00 27.25
ATOM	9759	CB	LEU C		38.594		87.714	1.00 27.42
ATOM	9762	CG	LEU C		37.308		87.978	1.00 27.41
ATOM	9764				37.328		89.177	1.00 26.98
ATOM	9768	CD1			36.274		89.030	1.00 26.10
		CD2			37.140		90.492	1.00 26.81
ATOM	9772	C	LEU C			101.657	86.926	1.00 27.76
ATOM	9773	0	LEU C		38.452		85.698	1.00 27.59
MOTA	9774	N	·GLN C		37.837	100.634	87.658	1.00 28.16
ATOM	9776	CA	GLN C		37.475	99.338	87.079	1.00 28.44
ATOM	9778	CB	GLN C		37.215	98.310	88.194	1.00 28.43
ATOM	9781	CG	GLN, C		38.477	97.832		1.00 28.46
ATOM	9784	CD	GLN C		38.727		88.789	1.00 28.15
MOTA	9785	OE1	GLN C	346	39.805		88.365	1.00 28.15
ATOM	9786	NE2	GLN C	346	37.737	95.520	89.162	_
MOTA	9789	С	GLN C	346	36.231		86.191	1.00 28.11 1.00 28.67
ATOM	9790	0	GLN C		35.299		96 515	
ATOM	9791	N	VAL C		36.219		85.092	1.00 28.63
ATOM	9793	CA	VAL C		35.083		84.158	
ATOM	9795	CB	VAL C	347	35.492		82.777	1.00 28.88
ATOM	9797	CG1			34.313			1.00 29.00
ATOM	9801	CG2	VAL C		36.670		81.802	1.00 29.19
ATOM	9805	C	VAL C		33.877		82.176	1.00 29.10
ATOM	9806	ŏ	VAL C	347	32.736		84.727	1.00 28.99
ATOM	9807	N	GLU C				84.343	1.00 29.22
ATOM	9809	CA	GLU C		34.130		85.651	1.00 28.89
ATOM	9811	CB	GLU C	348	33.065		86.308	1.00 28.48
ATOM	9814	CG	GLU C		33.578		86.710	1.00 28.54
ATOM	9817.	CD		348	34.222		85.571	1.00 28.57
ATOM	9818	OE1	GLU C	348	35.728		85.486	1.00 28.72
ATOM	9819			348	36.268		84.357	1.00 29.57
ATOM	9820	OE2	GLU C	348	36.380	94.334	86.539	1.00 28.83
ATOM		C	GLU C	348	32.522		87.539	1.00 28.22
ATOM	9821	0	GLU C	348	31.654		88.247	1.00 27.96
ATOM	9822	N	PHE C	349	33.072		87.798	1.00 27.96
	9824	CA	PHE C	349	32.557		88.794	1.00 27.71
MOTA	9826	CB	PHE C	349	33.742		89.609	1.00 27.74
ATOM	9829	CG		349	33.367		90.725	1.00 28.59
MOTA	9830	CD1		349	32.140		91.374	1.00 29.06
ATOM	9832	CE1		349	31.840		92.399	1.00 29.59
ATOM	9834	CZ	PHE C	349	32.769	102.301	92.796	1.00 29.26
ATOM	9836	CE2	PHE C	349	33.989	102.363	92.172	1.00 28.66
ATOM	9838	_	PHE C		34.288	101.475	91.146	1.00 29.12
ATOM	9840	C	PHE C		31.744	100.113	88.096	1.00 27.25
ATOM	9841	0	PHE C		30.771	100.601	88.659	1.00 27.59
ATOM	9842	N	ILE C		32.122	100.489	86.867	1.00 26.78
ATOM	9844	CA	ILE C		31.445	101.562	86.110	1.00 26.20
ATOM	9846	CB	ILE C	350	32.420	102.239	85.091	1.00 26.26
ATOM	9848	CG1			33.592	102.924	85.802	1.00 26.42
ATOM	9851	CD1	ILE C	350	34.836	103.084	84.904	1.00 26.70
MOTA	9855	CG2	ILE C	350	31.689	103.269	84.207	1.00 26.08
ATOM	9859	С	ILE C	350	30.196	101.088	85.354	1.00 25.72
ATOM	9860	0	ILE C	350	29.230	101.832	85.247	1.00 25.72
ATOM	9861	N	ASN C	351	30.219	99.875	84.809	
MOTA	9863	CA	ASN C		29.082	99.374	84.035	1.00 25.21 1.00 24.96
ATOM	9865	CB	ASN C		29.422	98.057	83.322	1.00 24.96
MOTA	9868	CG	ASN C	351	30.401	98.245	82.153	1.00 24.86
ATOM	9869		ASN C	351	30.457	99.308	81.523	
ATOM	9870	ND2	ASN C	351	31.172	97.198	81.858	1.00 26.02 1.00 25.78
ATOM	9873	С	ASN C	351	27.792	99.233	84.867	
					,52	25	04.00/	1.00 24.70

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	987568147899989999999999999999999999999999999	CD1 CG2 C O N CAB CGD1 CCC C C C C C C C C C C C C C C C C C	ASOOOOOOOO PROPERE EEEEEEEEEEEEEEEEEEEEEEE	<u> </u>	352 353 353 353 355 355 355 355 355 355	26.306 27.495 28.178 29.420 27.015 25.537 25.537 25.586 26.964 28.874 28.877 26.496 24.0136 24.031 22.744 23.799 24.463 21.856 22.744 23.799 24.465 20.465 21.554 21.554 21.360 20.47 19.654 20.554 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.654 21.395 19.464	96.928 96.502 100.768 100.851 100.975 101.303 101.311 101.575 100.614 102.071 103.049 102.797 102.668 102.668 104.972 105.755 106.106 105.020 105.729 104.253 104.344	84.466 86.802 87.501 87.5615 88.6565 87.5615 88.6565 88.6565 89.837 89.079 87.401 85.827 84.732 83.514 84.293 83.491 84.293 84.395 84.395 84.395 84.395 84.395 84.395 85.3711 86.6711 87.625 88.6565 88.6565 88.6565 88.6565 88.6565 88.6565 88.6565 88.6565 88.6565 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 88.6566 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23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36 23.36		
MOTA	9972	С	SER	С	357	20.295	105.020	85.862	1.00	19.99	C	2
MOTA	9974	N	ARG	С	358	20.430	104.253	84.793	1.00	20.29	ľ	N
ATOM ATOM												2
MOTA	9978 9981	CB CG	ARG ARG				103.971 102.525	82.360 81.901	1.00		(	2
ATOM	9984	CD			358		102.323	80.555	1.00		(	3
ATOM	9987	NE			358		102.751	80.620	1.00			Ŋ
ATOM	9989	CZ			358		101.977	80.935	1.00			C
_ATOM	9990		ARG				100.674	81.205	1.00			<u>,</u>
							2001073		1.00		 	<u> </u>

ATOM				C 358	24.38	5 102.515	80.950	1.00 29.9	<i>c</i>
MOTA MOTA		-		C 358	18.18	4 103.566	84.037	1.00 21 2	• •
ATOM		O N	ARG	C 358 C 359	17.10	1 103.910	83.556	1.00 21.8	7 · o
ATOM		CA	ALA		18.30. 17.12	3 102.525 9 101.770	84.852		5 ห
ATOM		СВ	ALA		17.52	2 100.456	85.276 85.927		4·; . c.
ATOM		С	ALA	C 359	16.27	9 102.622	86.216		•
MOTA		0		C 359	15.05	6 102.459	86.276		_ ~
ATOM ATOM		N CA	MET		16.92	2 103.553	86.923		6 и
ATOM		CB		C 360 C 360	16.19	7 104.555	87.684	1.00 23.3	2 c
ATOM	10015	CG	MET		17.13	7 105.295 1 104.413	88.638 89.741	1.00 23.8	8 C
ATOM	10018	SD	MET (	C 360	16.72	1 104.413	91.213	1.00 24.6 1.00 30.1	. •
ATOM	10019	CE		C 360	15.846	6 102.995	90.912	1.00 29.2	_
MOTA MOTA	10023 10024	C		C 360	15.432	2 105.560	86.807	1.00 23.5	6 C
ATOM	10024	O N		C 360 C 361	14.338	3 105.997	87.188	1.00 23.4	8 · ~
ATOM	10027	CA	ARG (		15.969	9 105.915 9 106.879	85.638	1.00 23.8	1 N
ATOM	10029	CB	ARG (	C 361	16.148	3 107.326	84.783 83.573	1.00 24.20	
ATOM	10032	CG	ARG (	C 361	16.187	108.860	83.365	1.00 24.79 1.00 26.99	
ATOM ATOM	10035 10038	CD	ARG (	361	16.661	109.654	84.627	1.00 30.2	2 C
ATOM	10038	NE CZ		361 361	16.053	110.989	84.746	1.00 32.03	3 N
ATOM	10041		ARG	361	15.969	111.706 111.247	85.873	1.00 33.99	Э с
ATOM	10044	NH2	ARG (	361	15.403	3 112.908	87.049 85.822	1.00 34.23	N.
ATOM	10047	C	ARG C	361	13.925	106.338	84.330	1.00 35.68 1.00 23.86	_
MOTA MOTA	10048 10049	0	ARG C	361	12.911	107.069	84.382	1.00 24.38	c c
ATOM	10049	N CA	ARG C		13,915	105.071	83.894	1.00 23.50	) · N
ATOM	10053	CB	ARG C		12.695	104.382 102.874	83.440	1.00 23.22	C
ATOM	10056	CG	ARG C		13.918	102.874	83.279 82.151	1.00 23.37	_
ATOM	10059	CD	ARG C	362	14.507	101.050	82.314	1.00 23.80 1.00 24.20	
ATOM ATOM	10062 10064	NE	ARG C		15.603	100.809	81.370	1.00 25.42	C N
ATOM	10065	CZ NH1	ARG C	362		100.111	81.628	1.00 25.11	. Ĉ
ATOM	10068	NH2	ARG C	362	16.901 17.636		82.814	1.00 24.28	N
ATOM	10071	С	ARG C			104.570	80.671 84.441	1.00 25.33 1.00 22.97	
ATOM ATOM	10072		ARG C		10.385	104.646	84.081	1.00 22.22	C
ATOM	10073 10075		LEU C		11.948	104.613	85.715	1.00 23.48	Ŋ
ATOM	10077		LEU C		11.016	104.763	86.832	1.00 23.40	C
MOTA	10080		LEU C		11.545	104.253 102.738	88.116	1.00 23.65	С
ATOM	10082	CD1	LEU C	363	12.171	102.414	88.298 89.650	1.00 24.41 1.00 24.85	_
ATOM ATOM	10086		LEU C		10.165	102.205		1.00 24.58	C
ATOM	10090 10091	С 0	FEA C	363	10.530	106.192	87.027	1.00 23.05	Č
ATOM	10092	N	GLY C	364	9.3//	106.412 107.151	87.419	1.00 23.00	. 0
ATOM	10094	CA	GLY C	364	11.008	107.131	86.741 86.499	1.00 22.83	
ATOM	10097	С	GLY C	364	10.641	109.217	87.783	1.00 22.35 1.00 21.76	C
ATOM ATOM	10098 10099	0	GLY C	364	9.658	109.951	87.864	1.00 21.26	C 0
ATOM	10101	N CA	LEU C	365	11.455	108.959	88.793	1.00 21.51	. N
ATOM	10103	CB :	LEU C	365	11.234	109.519 108.865	90.114	1.00 21.03	С
ATOM	10106	CG	LEU C	365	12.368	100.865	91.144 91.122	1.00 20.65 1.00 21.08	C
MOTA	10108	CD1	LEU C	365	13.044	107.004	92.460	1.00 21.08	C
ATOM ATOM	10112 10116	CD2	LEU C	365	11.079	106.571	90.916	1.00 20.54	C C
ATOM	10116	C :	ren c	365 365	11.503	111.016	90.102	1.00 20.73	. C
ATOM	10118	N :	ASP C	366	10.407	111.484 111.757	89.409	1.00 21.32	Ō
ATOM	10120	CA I	ASP C	366	10.991	113.161	90.871 91.132	1.00 20.00 1.00 19.45	N
MOTA	10122	CB 2	ASP C	366	9.697	113.977	91.126	1.00 19.45	. C

ATOM ATOM	10125 10126	CG POD1 POD2 P		366	8.683 1 9.092 1 7.470 1	13.087	92.098 93.215 91.844	1.00 1 1.00 2 1.00 1	21.40	•	C O O
ATOM ATOM	10127 10128		ASP C		11.720 1		92.476	1.00 1			Č
MOTA	10129		ASP C		12.003 1	.12.263	93.125	1.00 1	19.27		0
ATOM	10130	N Z	ASP C	367	12.015 1	14.488	92.884	1.00 1			N
MOTA	10132		ASP C		12.764 1		94.119	1.00 1			C
MOTA	10134		ASP C		12.997 1		94.260 93.184	1.00 1			C C
ATOM	10137		ASP C	367	13.933 1 14.541 1		92.456	1.00 2		•	ŏ
ATOM ATOM	10138 10139	OD2	ASP (	367	14.127		92.998	1.00 2			ō
MOTA	10140	C .	ASP (	367	12.137		95.393	1.00			С
ATOM	10141	0	ASP (	367	12.831		96.236	1.00			0
MOTA	10142			368	10.825		95.499	1.00			N C
ATOM	10144			368	10.087		96.622 96.454	1.00			C
MOTA	10146		ALA (	368 368	8.605 1 10.308 1		96.767	1.00			c
ATOM ATOM	10150 10151			C 368	10.513		97.878	1.00			ŏ
ATOM	10151			C 369	10.266		95.628	1.00			N
ATOM	10154		GLU (		10.353		95.561	1.00			C
ATOM	10156			C 369		109.624	94.217	1.00			C.
MOTA	10159			C 369		109.828	94.055	1.00			C
MOTA	10162			C 369		109.577 108.884	92.647 92.536	1.00	20.82		o
ATOM ATOM	10163 10164			C 369		110.052	91.656		18.31		ŏ
MOTA	10165	C		C 369	11.744		95.836		16.23		C
ATOM	10166	ŏ		C 369	11.886	108.550	96.445		16.69		0
MOTA	10167	N		C 370	12.762		95.404		16.55		И
MOTA	10169	CA		C 370	14.145		95.744		16.91		C
MOTA	10171	CB		C 370		110.805 110.198	94.935 93.646		16.93 17.84		C
ATOM	10174 10175	CG CD1		C 370		110.190	92.413		19.06		Ċ
ATOM ATOM	10173	CE1		C 370		110.119	91.207		19.31		CCC
ATOM	10179	CZ	TYR		16.484	109.067	91.247		19.58		С
ATOM	10180	ОН		C 370		108.484	90.093		22.52		0
MOTA	10182			C 370		108.582	92.454		20.02 19.34		C C
ATOM	10184		TYR	C 370 C 370		109.153 110.209	93.645 97.224		16.75		č
MOTA MOTA	10186 10187	C O		C 370		109.536	97.854		16.88		Ō
ATOM	10188	N	ALA			111.213	97.759	1.00	16.99		N
ATOM	10190	CA		C 371		111.635	99.145		17.27		C
ATOM	10192	CB		C 371	13.291	112.993	99.374		17.08	•	C
MOTA	10196	C		C 371		110.567			16.84 16.85		C 0
ATOM	10197	0		C 371		110.073 110.181	99.753		17.01		N
MOTA MOTA	10198 10200	N CA		C 372	11.404		100.441		17.09		C
MOTA	10202	CB		C 372		108.972	99.929		17.59		С
ATOM		CG		C 372	9.044	110.149			17.05		C
ATOM		CD1		C 372	7.889	110.186	99.401		16.74		С
ATOM				C 372		109.988			16.75		C
MOTA		C		C 372	12.074	107.789 107.043	100.327		17.40 18.12		Ö
ATOM		O N		C 372		107.465	99.176		17.55		N
ATOM ATOM				C 373		106.194	99.021		17.11		С
ATOM				C 373	13.757	105.902	97.556	1.00	17.61		C
ATOM		CG	LEU	C 373	12.821	104.978	96.754		19.97		C
MOTA			LEU	C 373		104.804	95.293		20.70		C
ATOM				C 373		103.626 106.211	97.424 99.872		20.60		C
ATOM				C 373		105.211			15.69		ŏ
MOTA MOTA				C 374		107.356	99.934		15.15		N
ALON	10200							·			

ATOM	10238	CA	ILE C	374	16.471	107 496	5 100.747	1 00	14 00	
ATOM	10240	CB	ILE C	374	17.107	108.871	100.747	1.00	14.92 14.52	
ATOM	10242	CG1			17.863	108.868	99.174	1.00		
ATOM ATOM	10245	CD1			18.178	110.229	98.652	1.00	14.08	
ATOM	10249	CG2 C	ILE C		18.094	109.237	101.625		15.97	
ATOM	10254	Ö	ILE C		16.148	107.247	102.242		15.39	
ATOM	10255	N	ALA C		15.804	106.436	102.899		14.33	
ATOM	10257	CA	ALA C		14.701	107.752	102.759	1.00	15.76	
ATOM	10259	CB	ALA C		13.529	108.715	104.144	1.00	16.21	
ATOM	10263	С	ALA C	375	14.301	106.315	104.430	1.00		
MOTA	10264	0	ALA C		14.640	105.778	105.504	1.00		
ATOM ATOM	10265 10267	N	ILE C		13.603	105.675	103.487	1.00		
ATOM	10267	CA CB	ILE C		13.248	104.260	103.641	1.00	16.17	•
ATOM	10271	CG1	ILE C		12.388	103.765	102.483	1.00		
MOTA	10274	CD1	ILE C		10.962	104.324	102.577 101.217	1.00		
MOTA	10278	CG2	ILE C	376	12.311	109.412	101.217	1.00		
MOTA	10282	С	ILE C	376	14.512	103.389	103.749	1.00		
ATOM	10283	0	ILE C		14.534	102.404	104.506		17.32	
ATOM	10284	N	ASN C		15.543	103.744	102.976		17.57	
ATOM ATOM	10286 10288	CA	ASN C		16.820	103.013	102.968	1.00	17.73	
ATOM	10200	CB CG	ASN C		17.752	103.496	101.848	1.00	17.99	
ATOM	10292	OD1			20 070	102.520	101.578	1.00	19.82	
ATOM	10293		ASN C	377	18.552	102.880	101.638 101.319	1.00	21.89	
ATOM	10296	C	ASN C		17.554	103.162	101.319	1.00	21.75 17.65	
ATOM	10297	0	ASN C		18.123	102.204	104.772	1.00	17.41	
MOTA	10298	N	ILE C		17.523	104.362	104.861	1.00	17.48	
ATOM ATOM	10300 10302	CA	ILE C		18.224	104.627	106.099	1.00	17.47	
ATOM	10302	CB CG1	ILE C	378 378.	18.164	106.130	106.434	1.00	17.43	
ATOM	10307	CD1	ILE C		18.964 18.754	106.953	105.415	1.00	18.45	
ATOM	10311	CG2	ILE C			106.508	105.545 107.814	1.00	18.06	
MOTA	10315	С	ILE C	378	17.654		107.247	1.00	18.61 17.23	
ATOM	10316	0	ILE C		18.400	103.188	108.018	1.00	16.66	
ATOM ATOM	10317	N	PHE C		16.330	103.626	107.318	1.00	17.55	
ATOM	10319 10321	CA CB	PHE C	379	15.659	102.894	108.394	1.00	17.18	
ATOM	10324	CG	PHE C		14.332	103.566	108.741		16.99	
ATOM	10325	CD1		379	14.489 13.915	104.9/3	109.255 108.612	1.00	16.94	
ATOM	10327	CE1	PHE C		14.085	107.298	108.612	1.00 $1.00$		
ATOM	10329	CZ		379	14.825	107.539	110.174		15.85 15.48	
ATOM	10331		PHE C		15.408	106.515	110.832		16.69	
ATOM ATOM	10333 10335	CD2 C	PHE C		15.260	105.233	110.367		18.66	
ATOM	10336	0	PHE C		15.431	101.445	108.028	1.00	17.81	
ATOM	10337	N	SER C		14.307	100.966	108.065 107.678	1.00	18.46	•
ATOM	10339	CA	SER C		16.485	99 310	107.678	1.00	17.88	
MOTA	10341	CB	SER C		17.496	98.909	107.441	1.00	17.98 17.76	
ATOM	10344	OG	SER C		17.303	99.647	105.163	1.00	16.61	
ATOM	10346	C	SER C		16.903	98.662	108.728	1.00	18.11	•
ATOM ATOM	10347 10348	0	SER C		17.982	98.947	109.228		18.24	
ATOM	10348	N CA	ALA C	381 201	16.077	97.768	109.256	1.00	18.87	
ATOM	10352	CB	ALA C	381 20T	16.282	97.263	110.629		19.14	
ATOM	10356	C	ALA C	381	15.004 17.374	96 227	111.221		18.10	
ATOM	10357	Ō	ALA C	381	17.918	95.904	110.613 111.649	1.00	19.86	
ATOM	10358	N	ASP C	382	17.720	95.740	109.426	1.00	20.58 20.78	
MOTA	10360	CA	ASP C	382	18.578	94.574	109.308	1.00	21.80	
ATOM	10362	CB	ASP C	382	18.049	93.631	108.217		22.59	

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ATOM	10365	CG	ASP			17.712		106.924	1.00	25.32	С
ATOM	10366		ASP			18.345		106.572		28.27	0
ATOM	10367		ASP			16.800		106.184		31.03	0
ATOM ATOM	10368 10369	C O	ASP ASP			20.063		109.087		21.30	C
ATOM	10370	И	ARG			20.850 20.464		108.880 109.158		21.67	0
ATOM	10370	CA	ARG			21.870		109.158		20.76 20.40	N
ATOM	10372	CB	ARG			22.102		108.964		20.40	C
ATOM	10377	CG	ARG			21.280		107.973		20.24	C
ATOM	10380	CD	ARG			21.471		106.512		20.81	C
ATOM	10383	NE	ARG			21.060		105.651		23.05	N
ATOM	10385	CZ	ARG			21.448		104.392		23.62	Č
ATOM	10386	NH1	ARG			22.284		103.791		22.88	N
ATOM	10389		ARG			20.988	100.673			23.93	N
MOTA	10392	C	ARG	С	383	22.705	95.828	110.072		20.60	Č
ATOM	10393	0	ARG			22.193	95.559	111.171		20.49	0
MOTA	10394	Ν.	PRO			23.990		109.791		20.64	N
ATOM	10395	CA	PRO			24.900		110.820		20.23	C
ATOM	10397	CB	PRO			26.252		110.100		20.42	C
ATOM	10400	CG	PRO			25.906		108.642		20.49	С
ATOM	10403	CD	PRO			24.675		108.487		20.78	C
MOTA MOTA	10406 10407	C	PRO			24.938		112.006		20.18	C
ATOM	10407	И О	PRO ASN			24.774 25.073		111.839		20.56	0
ATOM	10410	CA	ASN			25.282		113.198 114.440		19.50 18.82	N C
ATOM	10412	CB	ASN			26.525		114.315		18.73	C
ATOM	10415	CG	ASN			27.764		113.980		19.31	C
ATOM	10416		ASN			28.111		114.686		18.15	Ö
ATOM	10417		ASN			28.423		112.887		20.05	N ·
ATOM	10420	C			385	24.105		114.988		17.94	Ċ
ATOM	10421	0	ASN	С	385	24.272		115.967		17.75	Ö
MOTA	10422	N	VAL	С	386	22.920	96.870	114.404		17.31	N
ATOM	10424	CA			386	21.746		114.863	1.00	16.98	С
MOTA	10426	CB	VAL			20.583		113.834		16.96	С
MOTA	10428		VAL			19.256		114.462		17.21	С
ATOM	10432		VAL			20.843		112.699		16.77	C
ATOM	10436	C			386	21.323		116.230		16.99	C
ATOM ATOM	10437 10438	O N			386	21.182		116.411		16.69	0
ATOM	10438	N CA			387 387	21.143 20.861		117.198 118.568		16.81 17.01	Ŋ
ATOM	10442	CB			387	21.595		119.582		17.44	C
ATOM	10445	CG			387	23.103		119.742		19.87	C
ATOM	10448	CD			387	23.773		120.958		25.61	Č
MOTA	10449		GLN			23.707	98.247	122.088		28.07	Ö
MOTA	10450		GLN			24.430		120.730		28.85	N
MOTA	10453	С			387	19.351	97.492	118.800	1.00	16.32	C
MOTA	10454	0	GLN	С	387	18.875	96.659	119.549	1.00	15.38	0
MOTA	10455	N			388	18.594		118.095	1.00	16.53	N
MOTA	10457	CA			388	17.144		118.264		16.09	C
MOTA	10459	CB			388	16.764	99.681	118.965		16.06	C
ATOM	10462	CG			388	17.286	99.703	120.404		18.42	C
ATOM	10465	CD			388		100.927			18.48	C
ATOM ATOM	10466 10467		GLU GLU				102.090			15.22	0
ATOM	10467	C C			388	16.430	100.703	122.359		21.22 15.40	0
ATOM	10469	Ö			388	15.942		116.930		15.40	C
MOTA	10470	N			389	16.403		116.390		15.72	N
ATOM	10471	CA			389	15.651		115.150		15.72	C
ATOM	10473	СВ			389	15.727		115.032		15.89	Č
ATOM	10476	CG			389	16.318		116.329		14.99	č
MOTA	10479	CD			389	17.120		116.882		15.27	Č

ATOM	10482	C .	PRO C	389	14.197 97.143	115.228	1.00 16.18
ATOM	10483	0	PRO C	389		114.307	1.00 15.15
ATOM	10484	N	GLY C	390		116.346	1.00 16.92
ATOM	10486	CA	GLY C			116.556	1.00 16.79
ATOM	10489	С	GLY C			116.344	1.00 17.11
MOTA	10490	0	GLY C		10.893 99.093	115.718	1.00 17.75
ATOM	10491	N	ARG C		12.745 99.629	116.878	1.00 17.66
MOTA	10493	CA	ARG C		12.592 101.082	116.655	1.00 18.13
ATOM	10495	CB	ARG C		13.614 101.934	117.413	1.00 18.77
ATOM	10498	CG	ARG C		13.675 101.810	118.857	1.00 24.55
ATOM	10501	CD	ARG C		14.683 102.805	119.477	1.00 29.16
ATOM	10504	NE	ARG C		14.076 104.107	119.567	1.00 31.78
ATOM	10506	CZ	ARG C		13.182 104.413	120.470	1.00 34.82
ATOM	10507		ARG C		12.835 103.520	121.392	1.00 36.74
ATOM	10510		ARG C		12.626 105.609	120.456	1.00 37.16
ATOM	10513	С	ARG C		12.818 101.466	115.210	1.00 16.18
ATOM	10514	0	ARG C		12.147 102.322	114.689	1.00 15.38
ATOM	10515	N	VAL C		13.847 100.894	114.606	1.00 15.70
	10517	CA	VAL C		14.229 101.269	113.247	1.00 15.66
ATOM	10519	СВ	VAL C	392	15.553 100.608	112.817	1.00 15.19
ATOM	10521		VAL C		15.897 100.980	111.376	1.00 15.63
ATOM	10525		VAL C		16.687 101.041	113.724	1.00 14.28
ATOM	10529	C	VAL C		13.081 100.953	112.282	
ATOM	10530	0	VAL C		12.685 101.791	111.480	1.00 14.85
ATOM	10531	N	GLU C		12.511 99.764	112.435	1.00 16.20
ATOM	10533	CA	GLU C		11.417 99.333		1.00 17.13
MOTA	10535	CB	GLU C			111.816	1.00 17.76
ATOM ATOM	10538	CG	GLU C		9.758 97.464	111.291	1.00 21.52
	10541	CD	GLU C		9.695 96.060		1.00 25.44
ATOM ATOM	10542		GLU C			109.555	1.00 28.53
ATOM	10543 10544		GLU C			111.680	1.00 29.10
ATOM	10544	С	GLU C			111.759	1.00 16.73
ATOM	10546	O N	GLU C			110.781	1.00 17.69
ATOM	10548	CA	ALA C			112.984	1.00 15.86
ATOM	10550	CB	ALA C			113.245	1.00 15.54
ATOM	10554	C	ALA C			114.760	1.00 15.28
ATOM	10555	Õ	ALA C		8.851 102.788 7.879 103.395	112.623	1.00 15.35
ATOM	10556	N	LEU C			112.117	1.00 14.06
ATOM	10558	CA	LEU C		10.452 104.558	112.652	1.00 15.22
ATOM	10560	СВ	LEU C			112.420	1.00 15.78
ATOM	10563	CG	LEU C			113.861	1.00 15.68 1.00 16.97
MOTA	10565		LEU C	395		114.268	1.00 16.97
ATOM	10569		LEU C		11.107 106.770	114 050	1.00 19.03
MOTA	10573	C	LEU C		10.355 104.529	110 485	1.00 16.08
ATOM	10574	0	LEU C		10.014 105.516	109.859	1.00 16.06
MOTA	10575	N	GLN C			109.894	1.00 16.66
MOTA	10577	CA	GLN C	396		108.459	1.00 17.47
MOTA	10579	CB	GLN C			108.028	1.00 17.68
MOTA	10582	CG	GLN C			106.542	1.00 16.72
MOTA	10585	CD	GLN C			106.179	1.00 18.42
MOTA	10586	OE1	GLN C			106.369	1.00 18.27
MOTA	10587	NE2				105.647	1.00 17.65
MOTA	10590	C	GLN C		9.072 103.279	107.956	1.00 17.63
ATOM	10591	0	GLN C		8.821 103.809	106.869	1.00 17.64
ATOM	10592	N	GLN C		8.149 102.710	108.724	1.00 17.50
ATOM	10594	CA	GLN C		6.740 102.654	108.344	1.00 18.27
ATOM	10596	СВ	GLN C	397	5.859 102.191	109.506	1.00 19.03
ATOM	10599	CG	GLN C		4.431 101.773	109.037	1.00 23.38
ATOM	10602	CD	GLN C	397	3.449 101.459	110.189	1.00 26.76
ATOM	10603	OEI	GLN C	397	2.222 101.632	110.031	1.00 28.67

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ATOM	10604	NE2	GLN	С	397	3.983	100.997	111 327	1 00	26.27	
ATOM	10607	С			397	6.147	103.936	107 740		17.26	N
ATOM	10608	0			397	5 620	103.884	106 635			C
ATOM	10609	N			398	6 167	105.066	100.033		17.45	0
ATOM	10610	CA			398	5 557	106.287	100.437		16.37	N
MOTA	10612	СВ			398	5 840	107.337	107.001		16.00	С
ATOM	10615	CG			398	6 961	106.770	100.343		15.99	C
ATOM	10618	CD	PRO	Č	398	6 697	105.304	109.733		16.38	С
ATOM	10621	Ċ			398	6 135	106.722	109.786		16.31	C
ATOM	10622	ō			398	5 441	107.395	106.330		15.98	C
MOTA	10623	N			399	7 381	106.359	105.774		16.26	0
ATOM	10625	CA			399	8 010	106.723	100.237		15.50	N
ATOM	10627	СВ			399	9 546	106.768	104.975		15.01	C
ATOM	10630	ĊĠ			399	10 020	107.922	105.104		14.45	C
ATOM	10631	CD1			399	10.020	107.522	100.000		14.13	C
ATOM	10633	CE1			399	10.910	107.034	107.319		14.06	C
ATOM	10635	CZ			399	10.034	110.016	100.141		15.10	С
ATOM	10636	OH			399	11 2/3	111.020	107.008		12.68	C
ATOM	10638	CE2				10 444	110.281	106.431		13.28	0
ATOM	10640	CD2			399	10.444	109.218	106.366		14.91	C
ATOM	10642	c			399	7 542	105.218	103.338		14.31	C
MOTA	10643	ŏ			399	7.312	106.255	103.009		15.21	C
ATOM	10644	N			400	7.317	100.233	104.759		15.21	0
ATOM	10646	CA			400	6 772	104.519	104.1/5		15.84	N
ATOM	10648	CB			400	6 834	103.371	103.240		16.94	C
ATOM	10650		VAL			6.125	101.182	103.743		16.80	C
ATOM	10654		VAL			8 278	101.667	102.700		16.87	C
ATOM	10658	C	VAL			5.319	103.962	103.916		17.11	C
ATOM	10659	ō	VAL			4 912	103.302	102.909		17.15	C
ATOM	10660	N	GLU			4 562	104.267	101.019		16.77	0
ATOM	10662	CA	GLU			3.176	104.751	104.025		18.06	N
ATOM	10664	CB	GLU			2.551	105.092	105.075		18.84 19.09	C
ATOM	10667	CG	GLU			1 929	103.886	105.240		21.89	C
ATOM	10670	CD	GLU			1.442	104.153	103.333		24.70	C
ATOM	10671		GLU			1.243	103.183	107.336		27.79	C
ATOM	10672		GLU			1.260	105.318	100.113		28.43	0
ATOM	10673	C	GLU			3.129	105.968	107.752		18.12	0
ATOM	10674	0	GLU			2.367	106.001	102.930		17.39	C
ATOM	10675	N	ALA			3.984	106.947	102.007		18.19	0
MOTA	10677	CA	ALA			3.995	108.204	102.503		18.17	N
MOTA	10679	CB	ALA			5.011	109.135	102.505		18.00	C
ATOM	10683	С	ALA			4.270	107.995	101 005		18.61	C
ATOM	10684	0	ALA			3.631	108.618	100.154		18.66	0
MOTA	10685	N	LEU			5.213	107.114	100.694	1 00	18.75	N
MOTA	10687	CA	LEU			5.619	106.879	99.321		19.05	C
ATOM	10689	CB	LEU	С	403		106.192	99.275		19.15	C
ATOM	10692	CG	LEU				105.797	97.878		18.67	c
ATOM	10694	CD1	LEU			7.745	107.045	97.046		18.95	C
ATOM	10698	CD2	LEU	С	403		104.956	97.957		16.47	c
MOTA	10702	С	LEU				106.054	98.554		19.21	C
MOTA	10703	0	LEU	С	403	4.393	106.234	97.342		18.82	ŏ
MOTA	10704	N	LEU	С	404	3.910	105.140	99.253		19.19	И
MOTA	10706	CA	LEU	С	404		104.395	98.684		19.67	C
ATOM	10708	CB	LEU	С	404		103.363	99.684		19.97	C
MOTA	10711	CG	LEU	С	404		102.569	99.318		20.24	C
ATOM	10713		LEU	С	404	1.185	101.863	98.014		21.39	C
MOTA	10717	CD2	LEU	С	404		101.557	100.381		20.47	C
ATOM	10721	С	LEU				105.372	98.302		19.98	C
MOTA	10722	0	LEU				105.328	97.187		20.57	0
MOTA	10723	N	SER	С	405		106.259	99.235		20.27	N
MOTA	10725	CA	SER				107.334	99.022		20.15	C

	MOTA	10727	CB	SER	C 405	0 27	2 100 202	100 000					
	ATOM				C 405	-0.27	2 108.202 5 107.924	100.288		20.21			С
	ATOM	10732			C 405	0.31	0 108.248	100.983		20.15			0
	ATOM	10733			C 405		1 108.543			20.03			· c
	ATOM				C 406		4 108.702			20.53			0
	ATOM			TYR	C 406		2 109.688			20.00			. N
	ATOM				C 406	2.55	7 110.093			19.97			, Ĉ
	ATOM				C.406	J.99 1 E1	4 111.222		1.00	19.91			Ĉ
	ATOM	10742		1 TYR	C 406	4.31	8 112.542		1.00	18.94			С
	ATOM	10744		1 TYR	C 406	4.33	7 113.586		1.00	18.21	•		C
	MOTA	10746			C 406	5 41	1 113.386		1.00	18.94			С
	MOTA	10747			C. 406	5 96	5 114.295		1.00	19.59			C
	MOTA	10749	CE:	2 TYR	C 406	5.50	6 111.977	93.927		19.88			. 0
	ATOM	10751	CD	2 TYR	C 406	5.07	4 110.963	94.325 95.140	1.00	19.06			С
	ATOM	10753	C	TYR	C 406	2.46	9 109.172		1.00	19.40			С
	ATOM	10754	0	TYR	C 406	2.04	7 109.898	95.510	1.00	20.35			С
٠	ATOM	10755	N		C 407	2.85	4 107.916	94.626 95.308	1.00	20.27			. 0
	ATOM	10757	CA	THR	C 407	2.86	5 107.287	93.989	1.00	21.37			Ν.
	MOTA	. 10759	CB	THR	C 407	3.70	105.960	93.992	1.00	21.91	٠.		С
	ATOM	10761	OG:	LTHR	C 407	3.30	1 105.094	95.061	1.00	21.83			С
	ATOM	10763	CG2		C 407	5.18	3 106.223	94.250	1.00	20.54			.0
	ATOM	10767	C		C 407	1.45	3 106.984	93.492		22.28			С
	ATOM	10768	0	THR	C 407	1.188	3 107.060	92.300	1.00	23.05 22.82			С
	MOTA	10769	N	ARG	C 408	0.559	106.637	94.410	1.00	24.46			0
	MOTA	10771	CA	ARG	C 408	-0.80	7 106.265	94.065	1.00	25.85			N
	ATOM	10773	CB		C 408	-1.49	105.678	95.298	1 00	26.37			C
	ATOM	10776	CG	ARG		-2.916	105.192	95.109	1 00	29.43			C
	ATOM	10779	CD		C 408	-3.866	105.573	96.266	1.00	33.67			C
	ATOM	10782	NE	ARG	C 408	-4.798	104.490	96.601	1.00	36.66			C
	MOTA	10784	CZ	ARG	C 408	-4.462	2 103.356	97.226	1.00	38.90			N
	ATOM	10785	NHI	ARG	C 408	-3.199	103.126	97.604	1.00	39.24			C
	ATOM ATOM	. 10788			C 408.	-5.401	102.442	97.467	1.00	39.84			N
	ATOM	10791 10792	C		C 408	-1.557	107.482	93.507	1.00	26.15		•	N C
	ATOM	10792	0	ARG	C 408	-2.403	107.358	92.626	.1.00	26.69			0
	ATOM	10795	N CA	TPE	C 409	-1.209	108.659	94.002	1.00	26.64			N
	ATOM	10797	CB	TIE	C 409 C 409	-1.754	109.912	93.505	1.00	26.91			, C
	ATOM	10799		TIE	C 409	-1.638	110.998	94.597	1.00	27.04			č
	ATOM	10802	CD1	TIE (	C 409	-2.524	110.619	95.793	1.00	26.61			Č
	MOTA	10806	CG2	TLE	C 409	-2.211	111.419	97.028	1.00	26.26			Ċ
	ATOM	10810	C	TLE	C 409	-2.001	112.382	94.029	1.00	26.68	•		Č
	ATOM	10811	ŏ		C 409	-1.040	110.368	92.237	1.00	27.54			Ċ
	ATOM	10812	N		C 410	-1.000	110.954 110.098	91.354	1.00				0
	MOTA	10814	CA	LYS	C 410	1 0.239	110.098	92.134	1.00	28.09			N
	MOTA	10816	CB		C 410	2 559	110.546		1.00	28.82			C
	MOTA	10819	CG		C 410	3.403	111.356	91.278	1.00	28.98			C
	ATOM	10822	CD		2 410	4.840	110.867	90.321	1.00	30.02			C .
	ATOM	10825	CE	LYS (	C 410	5.799	111.947	90.222 89.723	1.00	30.46			С
	ATOM	10828	NZ	LYS (	C 410	7.240	111.551	89.853	1.00	31.05			С
	MOTA	10832	C	LYS (	C 410	0.712	109.774	89.692	1.00 2	29.84			N
	MOTA	10833	0	LYS (	2 410	0.346	110.385	88.709	1.00 2	20./0			C
	ATOM	10834	N	ARG (	2 411	0.867	108.449	89.701	1.00 2	29.01	•		. 0
		10836	CA	ARG (	2 411	0.430	107.583	88.601	1.00 2	20.92			N
	ATOM	10838	СВ	ARG (	2 411	1.606	106.837	87.950	1.00 2	-2.T2			C
	ATOM	10841	CG	ARG C	2 411	2.899	107.622	87.784	1.00 3	20.40 20.50			C
	ATOM	10844	CD	ARG C		3.182	108.149	86.369	1.00				C
	MOTA	10847	NE	ARG C		3.796	109.475	86.457	1.00	13 N5			C
	ATOM	10849	CZ	ARG C	411	3.974	110.310	85.441	1.00 3	33.60			N
	ATOM ATOM	10850	NHI	ARG C	411	3.616	109.968	84.209	1.00 3				C N
		10853 10856		ARG C	411	4.534	111.498	85.663	1.00 3				N
	-11 011	70070	С	ARG C	; 411	-0.590	106.549	89.094	1.00 2	9.28			C
										-			9

	,							
•	ATOM	10857	0	ARG	_	411	-0.255 105.380 89.239 1.00 29.32	0
		10858		PRO		412	-1.824 106.966 89.355 1.00 29.53	N
	MOTA			PRO			-2.879 106.030 89.763 1.00 29.86	Ĉ
	MOTA	10859					= · · · · · · · · · · · · · · · · · · ·	č
	MOTA	10861		PRO				c
	MOTA	10864		PRO				Č
	MOTA	10867		PRO			-2.313 108.356 89.323 1.00 29.66	C
	MOTA	10870		PRO			-3.001 104.756 88.908 1.00 30.29	C
	MOTA	10871	0	PRO			-3.254 103.676 89.450 1.00 30.16	0
	MOTA	10872	N	GLN			-2.825 104.874 87.596 1.00 30.80	И
	MOTA	10874	CA	GLN			-2.992 103.731 86.706 1.00 31.04	C
	MOTA	10876	CB	GLN		413	-3.915 104.115 85.539 1.00 31.05	С
	MOTA	10879	CG ·	GLN	С	413	-5.426 103.950 85.866 1.00 30.71	С
	MOTA	10882	CD	GLN	С	413	-6.187 105.272 85.930 1.00 30.28	С
	MOTA	10883	OE1	GLN		413	-6.175 105.957 86.959 1.00 29.01	0
	MOTA	10884	NE2	GLN	С	413	-6.862 105.622 84.834 1.00 29.34	N
	MOTA	10887	С	GLN	C	413	-1.634 103.130 86.260 1.00 31.55	С
	MOTA	10888	0			413	-1.438 102.784 85.091 1.00 31.41	0
	ATOM	10889	N			414	-0.708 103.024 87.225 1.00 31.99	N
	ATOM	10891	CA			414	0.502 102.201 87.115 1.00 32.28	С
	ATOM	10893	СВ			414	1.693 102.973 86.522 1.00 32.58	С
	ATOM	10896	CG			414	2.975 102.105 86.405 1.00 33.35	Ċ
	ATOM	10897		ASP			2.879 100.856 86.272 1.00 33.13	0
	MOTA	10898		ASP			4.128 102.585 86.433 1.00 34.30	Ō
	ATOM	10899	C			414	0.852 101.696 88.509 1.00 32.43	Ċ
		10900	Õ			414	1.710 102.258 89.188 1.00 32.08	Ô
	ATOM	10901	N			415	0.174 100.631 88.924 1.00 32.65	Ŋ
	ATOM	10901	CA			415	0.314 100.093 90.274 1.00 32.99	ä
	ATOM					415	-0.656 98.927 90.491 1.00 33.51	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	ATOM	10905	CB			415	-2.143 99.269 90.401 1.00 34.79	č
	ATOM	10908	CG				-3.020 98.074 90.764 1.00 36.38	C
	MOTA	10911	CD			415	-3.020 98.074 90.764 1.00 36.38 -3.260 97.819 91.951 1.00 38.72	ŏ
	ATOM	10912	OE1			415	-3.260 97.819 91.951 1.00 38.72	N
	MOTA	10913	NE2			415	5.474 57.550 65.755 1.66 55.65	C
	MOTA	10916	C			415	1.722 99.590 90.587 1.00 32.61	Ö
	MOTA	10917	0			415	2.129 99.584 91.743 1.00 32.42	
	MOTA	10918	N			416	2.454 99.160 89.565 1.00 32.30	N
	MOTA	10920	CA			416	3.753 98.527 89.771 1.00 32.17	C
	MOTA	10922	CB			416	4.034 97.516 88.657 1.00 32.29	C
	MOTA	10925	CG			416	2.979 96.416 88.479 1.00 32.42	C
	MOTA	10927	CD1			416	3.251 95.656 87.204 1.00 33.06	
	MOTA	10931				416	2.945 95.460 89.664 1.00 32.56	000
	MOTA	10935	C			416	4.919 99.516 89.890 1.00 31.82	0
	MOTA	10936	0			416	6.051 99.101 90.125 1.00 32.18	O N
	ATOM	10937	N			417		N
	MOTA	10939	CA			417	5.718 101.799 89.922 1.00 30.76	C
	ATOM	10941	CB			417	5.213 103.220 89.686 1.00 30.88	C
	MOTA	10944	CG			417	5.774 103.872 88.419 1.00 32.56	C
	MOTA	10947	CD			417	6.769 104.984 88.659 1.00 33.06	. C
	MOTA	10950	NE			2 417	6.167 106.036 89.465 1.00 33.10	И
	MOTA	10952	CZ			2 417	6.705 107.226 89.671 1.00 32.51	C
	MOTA	10953				2 417	7.871 107.568 89.131 1.00 32.25	N
	MOTA	10956	NH2			2 417	6.069 108.083 90.440 1.00 32.59	Ŋ
	ATOM	10959	С	ARG	5 (	2 417	6.270 101.708 91.326 1.00 29.89	C
	MOTA	10960	0	ARC	3 (	2 417	7.484 101.677 91.523 1.00 29.82	0
	MOTA					C 418	5.370 101.677 92.304 1.00 28.71	N
	ATOM					C 418	5.785 101.604 93.696 1.00 27.67	С
	MOTA		СВ			C 418	4.577 101.748 94.635 1.00 27.27	C
	ATOM					C 418	4.925 101.628 96.091 1.00 27.01	C
	ATOM					C 418	5.796 102.527 96.686 1.00 25.81	С
	ATOM					C 418	6.115 102.414 98.026 1.00 25.84	С
	ATOM					C 418	5.574 101.394 98.780 1.00 24.52	С
	ATOM					C 418	4.721 100.493 98.194 1.00 25.16	С
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ATO	M 1097	7 CD2 PHE C 418	4 207	100 605		
ATO	M 1097	9 C PHE C 418		100.607		
OTA				100.325		1.00 27.10
ATO	1098		7.792 6.060	100.429		1.00 26.14
ATO		2 CA PRO C 419	6.844	99.135		
OTA	10984	CB PRO C 419	5.977	97.900		
ATO	4 10987	CG PRO C 419	4.610	96.874	93.134	
ATO	1 10990	CD PRO C 419	4.664	97.353		
ATON			8.223	98.843	93.378	
ATON	1 10994	O PRO C 419	9.203	97.993	93.211	
<b>ATON</b>		N ARG C 420	8.299	97.658	93.860	
ATON		CA ARG C 420	9.570	98.496	91.987	
ATON		CB ARG C 420	9.361	98.571	91.276	
ATOM		CG ARG C 420	8.656	99.034	89.840	
ATOM		CD ARG C 420	8.183	98.684	88.947	1.00 27.46
ATOM		NE ARG C 420	7.317	97.784	87.646	
ATOM		CZ ARG C 420	6.565	98.143	86.889	1.00 31.22
ATOM		NH1 ARG C 420	6.554	99.402	85.847	1.00 31.95
ATOM		NH2 ARG C 420	5.809	97.228	85.396	1.00 31.78
ATOM	,	C ARG C 420	10.562	99.498	. 85.249	1.00 31.90
ATOM		O ARG C 420	11.759	99.239	["] 91.959 91.949	1.00 26.91
ATOM		N MET C 421.	10.060	100 578	92.549	1.00 26.33
ATOM		CA MET C 421		101.478	93.363	1.00 27.61
ATOM		CB MET C 421		102.620	93.907	1.00 27.93
ATOM		CG MET C 421		103.654	92.883	1.00 28.32
ATOM		SD MET C 421		104.966	93.627	1.00 30.21
ATOM	11030	CE MET C 421		105.809	94.482	1.00 32.58
ATOM	11034	C MET C 421		100.734	94.534	1.00 33.19 1.00 27.79
ATOM	11035	O MET C 421	12.722	100.836	94.760	1.00 27.79
ATOM	11036	N LEU C 422	10.708	99.989	95.274	1.00 27.73 1.00 27.78
ATOM ATOM	11038	CA LEU C 422	11.202	99.217	96.408	1.00 27.79
ATOM	11040 11043	CB LEU C 422	10.043	98.588	97.169	1.00 27.66
ATOM	11043	CG LEU C 422	9.063	99.511	97.880	1.00 26.55
ATOM	11045	CD1 LEU C 422 CD2 LEU C 422	8.090	98.660	98.651	1.00 26.95
ATOM	11043		9.751 1	.00.480	98.795	1.00 26.39
ATOM	11054	C LEU C 422 O LEU C 422	12.150	98.114	95.956	1.00 28.12
ATOM	11055	N MET C 423		97.809	96.633	1.00 28.59
ATOM	11057	CA MET C 423	11.870	97.534	94.798	1.00 28.33
ATOM	11059	CB MET C 423	12.715	96.483	94.237	1.00 28.41
ATOM	11062	CG MET C 423		95.934	92.979	1.00 28.75
MOTA	11065	SD MET C 423		95.268	93.212	1.00 30.50
ATOM	11066	CE MET C 423	10.930	93.534	93.490	1.00 35.50
ATOM	11070	C MET C 423		92.827	92.200	1.00 34.00
ATOM	11071	O MET C 423	14.131	96.976	93.913	1.00 28.15
ATOM	11072	N LYS C 424		96.182	93.805	1.00 28.57
ATOM	11074	CA LYS C 424		98.281 98.847	93.741	1.00 27.55
MOTA	11076	CB LYS C 424		00.193	93.450	1.00 26.88
MOTA	11079	CG LYS C 424		00.193	92.735	1.00 27.25
MOTA	11082	CD LYS C 424		99.556	91.386	1.00 27.60
MOTA	11085	CE LYS C 424		98.805	90.226	1.00 27.94
MOTA	11088	NZ LYS C 424			89.211 87.902	1.00 28.39
ATOM	11092	C LYS C 424		98.973	07.902	1.00 29.25
ATOM	11093	O LYS C 424		99.041	94.707 94.625	1.00 26.24
ATOM	11094	N LEU C 425	15.791		95.872	1.00 26.48
ATOM	11096	CA LEU C 425			97.129	1.00 25.14
ATOM ATOM	11098	CB LEU C 425			98.337	1.00 24.15 1.00 23.90
ATOM	11101	CG LEU C 425	14.860 10	00.426	98.511	1.00 23.74
ATOM	11103	CD1 LEU C 425	14.053 10	00.418	99.797	1.00 23.74
ATOM	11107 11111	CD2 LEU C 425	15.812 10	01.618	98.508	1.00 22.52
111 OF1	<b>TTTT</b>	C LEU C 425		-	97.189	1.00 23.59
				-		00 23.33

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ATOM	11112 11113		LEU C VAL C		18.274 16.573	97.338 96.479	97.784 96.582	1.00 3			O N
MOTA MOTA	11115		VAL C		17.171	95.149	96.491	1.00			С
ATOM	11117		VAL C		16.246	94.123	95.795	1.00			С
ATOM	11119		VAL C		16.890	92.781	95.767	1.00	22.20		С
ATOM	11123			426	14.924	94.020	96.482	1.00	22.82		C
ATOM	11127		VAL C		18.462	95.224	95.683	1.00			С
ATOM	11128	0	VAL C		19.526	94.762	96.105	1.00			0
MOTA	11129		SER C		18.359	95.812	94.502	1.00			N
MOTA	11131		SER C		19.505	95.924	93.622	1.00			C
MOTA	11133		SER C		19.065	96.482	92.262		26.30		C
MOTA	11136		SER C		18.360	95.477	91.533		26.75 26.49		O .
MOTA	11138		SER C		20.618	96.763	94.264 94.041		26.75		Ö
ATOM	11139		SER C		21.786	96.499 97.742	95.084		26.85		N
MOTA	11140		LEU C		20.245 21.201	98.598	95.801		27.26		"c
ATOM	11142		LEU C		20.470	99.730	96.531		27.07		C
ATOM	11144 11147	CB CG	LEU C			101.034	95.800		27.26		Ċ
MOTA	11147		LEU C			101.845	96.516		27.13	•	С
MOTA MOTA	11149		LEU C			101.814	95.667		27.93		С
ATOM	11157	C	LEU C		22.017	97.855	96.854		27.70		С
ATOM	11158	Ö	LEU C		23.140	98.254	97.162		27.62		0
ATOM	11159	N	ARG C		21.425	96.826	97.457		28.50		N
ATOM	11161	CA	ARG C		22.133	96.012	98.453		29.02		C
MOTA	11163	CB	ARG C		21.210	94.976	99.098		29.00		C
MOTA	11166	CG	ARG C		20.383		100.213		28.11		C
ATOM	11169	CD	ARG C		21.178		101.350		28.39		C N
MOTA	11172	NE	ARG C		20.346		102.056		27.41		C
MOTA	11174	CZ	ARG C		19.451		102.963		28.85 31.15		N
MOTA	11175	NHI	ARG C	429	19.265		103.322 103.537		30.76		N
MOTA	11178		ARG C	429	18.738 23.287	95.272	97.821		29.62		C
MOTA	11181	С	ARG C		24.364		98.392		29.89		Ō
' ATOM	11182	N O	THR C		23.046		96.647		30.50		N
ATOM ATOM	11183 11185	CA	THR C		24.082		95.920		31.56		С
ATOM	11187	CB	THR C		23.477		94.730		31.43		С
ATOM	11189	OG1	_		22.265		95.126		31.34		0
ATOM	11191	CG2			24.389	92.000	94.338		31.71		C
ATOM	11195	C	THR C		25.168		95.409		32.38		C
ATOM	11196	0	THR C	430	26.358		95.511		32.48		0
MOTA	11197	N	LEU C		24.738		94.873		33.48		N C
ATOM	11199	CA	LEU C		25.643				34.20		c
MOTA		CB	LEU C		24.832				34.11 33.49		c
MOTA		CG	LEU C		25.343		92.324 91.752		33.49		č
MOTA			LEU C		26.590 24.240				33.37		Č
ATOM			LEU C	J 431 ∼ 431	26.536				35.06		Č
ATOM		C		C 431	27.692				35.38		0
ATOM ATOM				C 432	25.988			1.00	35.73		N
ATOM				C 432	26.733				36.37		С
ATOM				C 432	25.800			1.00	36.43		С
ATOM				C 432	26.504		100.127		36.57		0
ATOM				C 432	27.868	97.327	98.071	1.00	36.97		C
ATOM				C 432	28.96				37.30		0
ATOM	11227	N		C 433	27.60				37.48		N
ATOM	11229			C 433	28.62				37.95		C
ATOM				C 433	27.99				37.93		0
MOTA				C 433	28.96				37.61 38.16		C
ATOM				C 433	29.79				0 38.14		o
ATON				C 433	30.82 29.60				0 38.84		Ŋ
ATON	1 11238	3 N	VAL	C 434	29.00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

ATOM	1 11240	CA VAL C 434	30.66	6 05 040		_	
ATOM	1 11242				95.138		
ATOM	1 11244						
ATOM						1.00 39 12	
ATOM					92.633	1.00 39.40	
ATOM				96.891	95.561	1.00 39.80	
				96.916			
ATOM			31.382				
ATOM			32.263	98.832			
ATOM		CB HIS C 435	31.502				
ATOM	11261	CG HIS C 435					
ATOM	11262	ND1 HIS C 435	,	101.061			
ATOM				101.650	99.477	1 00 42 00	
ATOM				102.784	99.426	1.00 42.90	
ATOM			33.310	102.954	98 189	1:00 40 00	
ATOM		CD2 HIS C 435		101.892	97.420	1.00 42.60	
	_	C HIS C 435	33.530	98.341	97.683	1.00 40.75	
ATOM	—	O HIS C 435	34.607				•
ATOM		N SER C 436	33.394		98.519		
ATOM		CA SER C 436	34.549	96.701	99.182		
ATOM		CB SER C 436	34.139		99.182		
ATOM		OG SER C 436	34.193		99.918		
MOTA	. 11281	C SER C 436	24.123		99.059		
ATOM		O SER C 436	35.655		98.176		
ATOM	11283	N GLU C 437	36.814		98.390	1.00.40.71	
ATOM		0 10 /	35.268		97.066	1.00 40.74	
ATOM	11287		36.197		96.030		
ATOM		CB GLU C 437	35.425	94.739	94.828	1.00 40.67	
ATOM	11290	CG GLU C 437	34.469	93.593	95.137	1.00 40.23	
	11293	CD GLU C 437	34.106	92.800	93.896	1.00 39.60	
ATOM	11294	OE1 GLU C 437	33.001	93.005	93.346	1 00 39.80	•
ATOM	11295	OE2 GLU C 437	34.936	91.976	93.465	1.00 38.73	
ATOM	11296	C GLU C 437	37.138	96.401	95.522	1.00 38.66	
ATOM	11297	O GLU C 437	38.340	96.162	95.354	1.00 40.81	•
MOTA	11298	N GLN C 438	36.585	97.589	95.268	1.00 40.76	
ATOM	11300	CA GLN C 438	37.337	98.683		1.00 40.83	
ATOM	11302	CB GLN C 438	36.410	99.883	94.638	1.00 40.82	
MOTA	11305	CG GLN C 438	37 060	101.099	94.373	1.00 40.70	
ATOM	11308	CD GLN C 438	38 003	101.099	93.691	1.00 40.71	
ATOM	11309	OE1 GLN C 438	37.560	100.735	92.534	1.00 40.27	
MOTA	11310	NE2 GLN C 438	30.300	100.554	91.396	1.00 39.98	
MOTA	11313	C GLN C 438	38.566	100.640	92.827	1.00 39.83	
ATOM	11314	O GLN C 438	30.300	99.108	95.459	1.00 40.82	
ATOM	11315	N LEU D 220	39.710	98.822	95.082	1.00 40.52	
ATOM	11317	CA LEU D 220	-8.763	88.448	91.008	1.00 28.95	
ATOM	11319	CB LEU D 220	-7.657	87.934	90.143	1.00 29.15	
ATOM	11322	CG LEU D 220	-6.902	86.806	90.853	1.00 29.27	
ATOM	11324	CD1 LEG D 220	-5.432	87.114	91.167	1.00 29.73	
ATOM	11328	CD1 LEU D 220	-4.849	86.119	92.161	1.00 29.41	
ATOM	11332	CD2 LEU D 220	-4.615	87.140	89.884	1.00 30.06	
ATOM		C LEU D 220	-8.182	87.431	88.804	1.00 29.19	
ATOM	11333	O LEU D 220	-9.391	87.338	88.604	1.00 29.21	
ATOM	11336	N THR D 221	-7.256	87.099	87.902	1.00 29.27	
	11338	CA THR D 221	-7.575	86.615	86.554	1.00 29.27	
ATOM	11340	CB THR D 221	-6.913	87.534	85.479	1 00 29.28	
ATOM	11342	OG1 THR D 221	-5.692	88.106	85.984	1.00 29.32	
ATOM .	11344	CG2 THR D 221	-7.801	88.749	85.171	1.00 28.79	
ATOM	11348	C THR D 221	-7.143	85.150	86.365	1.00 29.41	
ATOM	11349	O THR D 221	-6.549	84.553		1.00 29.28	
ATOM	11350	N ALA D 222	-7.456	84.577	87.258	1.00 29.18	
MOTA	11352	CA ALA D 222	-7.181	83.159	85.203	1.00 29.31	
MOTA	11354	CB ALA D 222 .	-7.804	82.757	84.924	1.00 29.35	
ATOM	11358	C ALA D 222	-5.656		83.551	1.00 29.22	
MOTA	11359	O ALA D 222	-5.157		84.958	1.00 29.44	
MOTA	11360	N ALA D 223	-4.904	81.752 83.701	85.705	1.00 29.16	
•			4.504	03.701	84.215	1.00 29.57	
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ATOM	11362	CA			223	-3.496	83.431	83.921	1.00	29.62		_
MOTA	11364	CB			223	~2.932		82.983	1 00	29.57		C
MOTA	11368	С	ALA	. E	223	-2.641		85.176	1.00	29.86		C
ATOM	11369	0	ALA	. [	223	-1.436		85.086				С
MOTA	11370	N			224	-3.268				30.12		0
ATOM	11372	CA			224			86.336	1.00	29.94		N
ATOM	11374	СВ			224	-2.600		87.627	1.00	29.72		C
MOTA	11377		GLN	L	224	-2.680		88.269	1.00	29.66		C
		CG			224	-1.781	85.888	87.593	1.00	29.31		č
ATOM	11380	CD	GLN	E	224	-2.541	87.109	87.102	1.00	29.38		č
ATOM	11381	OE1	. GLN		224	-3.157	87.082	86.012		29.53		
MOTA	11382	NE2			224	-2.494		87.890	1 00	27.96		. 0
MOTA	11385	С	GLN	D	224	-3.196		88.546	1 00	29.88		N
MOTA	11386	0	GLN	D	224	-2.456		89.234	1.00	29.66		C
ATOM	11387	N			225	-4.521	82.258	88.555	1.00	29.00		0
MOTA	11389	CA			225	-5.187	81.167	89.275	1.00	30.07		Ŋ
ATOM	11391	CB			225	-6.682	81.152			30.33		С
ATOM	11394	CG			225	-7.461	01.137	88.950		30.40		С
MOTA	11397	CD			225			89.610		30.36		C
MOTA	11398		CLII	7	225	-8.667	82.737	88.804		30.17		C
ATOM	11399	OES	CTI	ם	225	-8.979	82.129	87.758		29.85		0
ATOM	11400		CTU	ט	225	-9.309	83.721	89.223		30.32		0
MOTA		C			225	-4.571	79.807	88.932	1.00	30.57		C
	11401	0			225	-4.378	78.965	89.810		30.67		ŏ
ATOM	11402	N			226	-4.276	79.602	87.650		30.89		N
ATOM	11404	CA			226	-3.532	78.429	87.191	1.00	31.09		Č
MOTA	11406	CB			226	-3.299	78.511	85.679		31.16		c
MOTA	11409	CG	LEU	D	226	-2.287	77.542	85.052		31.34		Ç
MOTA	11411	CD1	LEU	D	226	-2.850	76.125	85.020		31.59		č
MOTA	11415	CD2	LEU	D	226	-1.896	77.993	83.645		31.34		C
MOTA	11419	С	LEU	D	226	-2.185	78.349	87.893	1.00	31.35		C
MOTA	11420	0			226	-1.809	77.305	88.432				C
ATOM	11421	N			227	-1.470	79.472	87.869		31.20		0
MOTA	11423	CA			227	-0.083	79.541	88.320		31.59		N
ATOM	11425	CB			227	0.609	80.786			31.75		C
ATOM	11428	CG			227	0.860	81.966	87.720		31.89		C
MOTA	11431	SD			227	1.984		88.690	1.00	32.31		C
ATOM	11432	CE			227		83.226	88.025		33.24		S
ATOM	11436	C			227	1.224	83.647	86.440		33.06		C
ATOM	11437	õ	MET	ם	227	0.098	79.497	89.844	1.00	31.85		C
ATOM	11438	N				1.213	79.295	90.315	1.00			0
ATOM	11440				228	-0.974	79.686	90.610	1.00	31.96		N
ATOM	11442	CA			228	-0.854	79.727	92.071	1.00	32.04		C
ATOM		CB	ILE			-1.987	80.566	92.719	1.00	31.92		C
	11444	CGI	ILE	D	228	-1.576	82.037	92.779	1.00			Č
MOTA	11447	CDI	ILE	D	228	-2.743	82.991	92.849	1.00			Č
ATOM	11451		ILE			-2.328	80.067	94.127	1.00	31.73		č
MOTA	11455	C	ILE	-		-0.827	78.305	92.614	1.00	32.37		Č
MOTA	11456	0	ILE			-0.010	77.988	93.473	1.00	32.44		Ö
MOTA	11457	N	GLN			-1.714	77.453	92.103	1.00			
MOTA	11459	CA	GLN	D	229	-1.733	76.043	92.487	1.00			N
MOTA	11461	CB	GLN			-2.996	75.356	91.906	1.00	32 76		C
ATOM	11464	CG	GLN			-4.335	75.978	92.370	1.00	32.10 32 71		C
ATOM	11467	CD	GLN	D	229	-4.744	75.524	93.763				C
MOTA	11468	OE1	GLN	D	229	-3.936	75.563	94.700	1.00	32.15		C
MOTA	11469	NE2		Ď	229	-5.999			1.00	31.80		0
ATOM	11472	C	GLN			-0.440	75.096	93.907	1.00	32.33		N
MOTA	11473	ŏ	GLN				75.350	91.982	1.00			С
MOTA	11474	N	GLN	ח	230	0.135	74.327	92.656	1.00		•	0
ATOM	11476	CA	GLN			0.009	75.921	90.794	1.00			N
ATOM .	11478	CB				1.166	75.417	90.043	1.00			C
ATOM	11481		GLN			1.445	76.289	88.805	1.00			C
ATOM	11484	CG	GLN			1.826	75.540	87.551	1.00	33.91		Č
ATOM	11484	CD	GLN	ח	230	1.364	76.276	86.300	1.00			Č
ALOM	71403	OET	GLN	ט	230	1.819	77.391	86.028	1.00			ŏ
												-

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ATO	M 11486	NE2 G	LN D 230	0 447	75 66-					
ATO		C G	LN D 230					34.29		N
ATO	M 11490		LN D 230				1.00 3	33.43	•	C
ATO		N L	EU D 231	3.046			1.00 3	33.59		Ö
ATO		CA L	EU D 231	2.641			1.00 3	33.40		. И
ATO		CB L	EU D 231				1.00 3	33.21		
ATO		CG L	EU D 231	3.998			1.00 3	33.18		C
ATO		CD1 T	EU D 231	4.273		91.346		2 99		C
ATO		CD3 T	EU D 231	4.425		91.736		2 52	•	C
ATO		CD2 L	EU D 231	5.499	78.784	90.569	1.00 3	2 74	•	C
ATO		C L	EU D 231	3.570	76.087		1.00 3	2 15	•	C
		O . L	EU D 231	4.533	75.557		1.00 3	3.15		C
ATON		N V	AL D 232	2.320	75.969	94.067	1.00 3	3.50		0
ATON		CA V	AL D 232	2.039	75.248	95.312	1.00 3	2.97		N
ATON		CB V	AL D 232	0.587	75.455	95.820	1.00 3	3.17		С
ATOM		CG1 V	AL D 232	0.318	74.585		1.00 3	3.06		C ·
ATOM		CG2 V	AL D 232	0.338	76.935	97.064	1.00 3	2.90		C
ATOM		C V	AL D 232	2.312	73.759	96.158	1.00 3	3.46		С
ATOM		O V	AL D 232	3.141	73.739	95.151	1.00 3	3.28		C
. ATOM		N AI	LA D 233	1.614		95.853	1.00 3	3.14		0
ATOM		CA AI	LA D 233	1.718	73.126		1.00 3	4.04		N
ATOM		CB AI	A D 233	0.815	71.673	93.992	1.00 3	4.23		C
ATOM		C AI	A D 233	3.154	71.259	92.862	1.00 3	4.35		Č
ATOM		O AI	A D 233		71.166	93.734	1.00 3	4.53		Č
ATOM		N AI	A D 234	3.554	70.076	94.230	1.00 3	4.76		ŏ
ATOM		CA AI	A D 234	3.918	71.973	92.977	1.00 3	4.74		Ŋ
ATOM		CB AI	A D 234	5.344	71.719	92.709	1.00 3	5.05		C
ATOM			A D 234 A D 234	5.809	72.619	91.577	1.00 3	5.03		č
ATOM		O AL	A D 234	6.262	71.908	93.946	1.00 3	5.58		Č
ATOM		N GL	N D 235	7.262	71.194	94.097	1.00 3	5.16		Ö
ATOM		CA GL	N D 235	5.930	72.871	94.806	1.00 3	5.15		N .
ATOM		CB GL	N D 235	6.654	73.071	96.071	1.00 3	5.99		
ATOM		CG GL	N D 235	6.310	74.438	96.707	1.00 3	5 87		C.
ATOM		CG GL	N D 235	6.970	74.686	98.075	1.00 37	7 10		
ATOM		CD GL	N D 235	7.619	76.055	98.190	1.00 37	7 1/		C
ATOM		OPT GP	N D 235	. 6.965	77.073	97.965	1.00 37	7 04		C
ATOM		MEY GP	N D 235	8.903	76.083	98.550	1.00 37	7 27		0
ATOM		C GL	N D 235	6.390	71.925	97.062	1.00 37	60		N
ATOM			N D 235	7.248	71.619	97.899	1.00 37	. 60		C
ATOM		N LE	U D 236	5.222	71.282	96.949	1.00 38	. 45		0
ATOM		CA LE	U D 236	4.860	70.192	97.864	1.00 39	1.43		N
ATOM		CB LE	U D 236	3.338	70.064	97.978	1.00 39	43		C
ATOM		CG LE	U D 236	2.567	71.306	98.443	1.00 39	. 43		С
ATOM	11572	CD1 LE	U D 236	1.064	71.102	98.223	1.00 39	. 19		C
	11576	CD2 LE	U D 236	2.871	71.655	99.893	1.00 39	. 92		C
ATOM	11500	LE	U D 236	5.452	68.850	97.430	1.00 39	.80		С
ATOM ATOM	11581	) LE	J D 236	5.643	67.956	98.261	1.00 39	.81		C
	11582 N	4 GL	N D 237	5.726	68.711	96.131	1.00 39	.67		0
ATOM	<b></b>	CA GL1	N D 237	6.315	67.489	95.579	1.00 40	. 68		N
ATOM		CB GL1	N D 237	5.821	67.226	94.145	1.00 41	.25		C
ATOM	<b>-</b>	G GL1	N D 237	6.585	67.935	93.017	1.00 41	.13		,C
ATOM		D GLN	N D 237	5.844	67.883	91.677	1.00 40	. 75		С
ATOM	11593 C	E1 GLN	N D 237	6.027	68.757		1.00 40	.51		C
ATOM	11594 N	E2 GLN	D 237	5.012	66.857	90.814	1.00 39	.72		0
ATOM	11597 C	GLN	D 237	7.841	67.546	91.504	1.00 40	.17		N
ATOM	11598 O	) GLN	D 237	8.510		95.654	1.00 42	.10		С
MOTA	11599 N	CYS	D 238	8.380	66.563	95.380	1.00 42	.26		0
MOTA	11601 C	A CYS	D 238	9.770	68.711	96.004	1.00 43	.04		N
MOTA	11603 C	B CYS	D 238	10.309	68.823	96.432	1.00 43	. 87		Ċ
MOTA		G CYS	D 238		70.236	96.159	1.00 43	. 91		Č
ATOM	11607 C		D 238	10.457	70.656	94.396	1.00 45	.75		S
MOTA	11608 O	CYS	D 238	9.826	68.500	97.928	1.00 44.	20		Ċ
MOTA	11609 N	ASN	D 239	10.759	67.856	98.409	1.00 44.	. 25		Ö
	•	- 1014	- 233	8.806	68.945	98.654	1.00 44.	70		N
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MOTA	11611	-	ASN D 239			100.086	1.00 45.10	C
MOTA	11613		ASN D 239			100.642	1.00 45.18	C
MOTA	11616		ASN D 239			102.095	1.00 45.80 1.00 47.36	C 0
MOTA	11617		ASN D 239		68.902	102.957	1.00 47.36	N
MOTA	11618		ASN D 239			102.377	1.00 45.50	C
ATOM	11621		ASN D 239			100.414 101.377	1.00 45.49	Ö
MOTA	11622		ASN D 239		66.444	99.594	1.00 46.10	N
ATOM	11623		LYS D 240 LYS D 240		65.027	99.833	1.00 46.33	C
MOTA	11625 11627	CA CB·	LYS D 240		64.592	99.208	1.00 46.56	č
ATOM ATOM	11630	CG .	LYS D 240		65.058	99.956	1.00 46.25	C
ATOM	11633	CD	LYS D 240		64.551	99.264	1.00 45.65	, C
ATOM	11636	CE	LYS D 240			100.044	1.00 45.11	C
ATOM	11639	NZ	LYS D 240		63.399	99.770	1.00 44.72	N
MOTA	11643	C	LYS D 240		64.208	99.233	1.00 46.68	С
ATOM	11644	ō	LYS D 240	9.504	63.410	99.925	1.00 46.55	0
ATOM	11645	N	ARG D 241		64.416	97.936	1.00 47.01	N
ATOM	11647	CA	ARG D 241	10.142	63.696	97.173	1.00 47.21	С
MOTA	11649	CB	ARG D 241	10.492	64.483	95.897	1.00 47.16	С
MOTA	11652	.CG	ARG D 241	11.627	63.918	95.045	1.00 46.82	C
MOTA	11655	CD	ARG D 241	11.567	64.331	93.563	1.00 46.58	C
ATOM	11658	NE	ARG D 241	12.364	63.442	92.710	1.00 46.17	N
ATOM	11660	CZ	ARG D 241	12.307	63.393	91.377	1.00 45.75	C
MOTA	11661		ARG D 241	11.483	64.181	90.689	1.00 45.44	N
MOTA	11664		ARG D 241	13.089	62.543		1.00 45.82 1.00 47.55	N C
ATOM	11667	C	ARG D 241	11.397	63.436		1.00 47.55	0
ATOM	11668	0	ARG D 241	11.920	62.313		1.00 47.39	N
MOTA	11669	N	SER D 242	11.862 12.994	64.474 64.360		1.00 47.87	C
ATOM	11671	CA	SER D 242 SER D 242	14.130	65.283		1.00 48.20	č
MOTA	11673	CB	SER D 242 SER D 242	14.748	64.781		1.00 47.67	Ö
ATOM	11676 11678	OG C	SER D 242	12.537		101.054	1.00 48.36	Č
ATOM ATOM	11679	Ö	SER D 242	12.852		101.633	1.00 48.19	0
MOTA	11680	Ŋ	PHE D 243	11.771		101.595	1.00 48.74	N
MOTA	11682		PHE D 243	11.203		102.957	1.00 48.90	С
ATOM	11684	СВ	PHE D 243	9.680		102.863	1.00 49.16	C
ATOM	11687	CG	PHE D 243	9.049		104.079	1.00 49.90	C C
MOTA	11688		PHE D 243	9.309		104.404	1.00 50.91	C
MOTA	11690		PHE D 243	8.712		105.519	1.00 51.28	C
ATOM	11692	CZ	PHE D 243	7.832		106.311	1.00 51.43	c c c
MOTA	11694		PHE D 243	7.556		105.985	1.00 51.08	C
MOTA	11696		PHE D 243	8.159		104.873	1.00 50.59	c
MOTA	11698	C	PHE D 243	11.505		103.726	1.00 48.63 1.00 48.58	o
MOTA	11699	0	PHE D 243	11.394		104.952 102.996	1.00 48.29	N
ATOM	11700	N	SER D 244 SER D 244	11.849 12.382	60 144	103.592	1.00 48.06	Ċ
MOTA	11702	CA CB	SER D 244	11.270	59.310	103.332	1.00 48.10	· c
MOTA	11704 11707	OG	SER D 244	10.746		103.277	1.00 47.55	Ō
MOTA MOTA		C	SER D 244	13.092		102.533		С
ATOM		Ö	SER D 244	14.311		7 102.573		0
ATOM		N	LYS D 248	17.681		106.502	1.00 23.61	N
ATOM		CA	LYS D 248	19.122	58.064	1 106.472		C
MOTA		CB	LYS D 248	19.499	57.00	7 105.410	1.00 24.25	C
ATOM		CG	LYS D 248	19.137		3 103.961		C
MOTA		CD	LYS D 248	19.346		3 103.041		C
ATOM		CE	LYS D 248	18.163		3 103.058		
ATOM		NZ	LYS D 248			8 101.778		N
ATOM	11731		LYS D 248			7 106.268		C
MOTA			LYS D 248			6 105.435		0
ATOM			VAL D 249			7 107.025		N C
ATOM	1 11735	CA	VAL D 249	20.399	61.55	8 107.303	1.00 24.27	C

ATO	M 11737	CB VAL D 249	10 570 40
ATO		CG1 VAL D 249	19.578 62.852 107.446 1.00 24.61
ATO		CG2 VAL D 249	20.201 63.839 108.484 1 00 25 06
ATO	4 4 5 4 5	C VAL D 249	19.440 63.533 106.095 1.00 24 50
ATO			21.208 61.299 108.596 1.00 24 25
ATON		O VAL D 249	20.827 60.454 109.439 1 00 25 68
ATON		N THR D 250	22.350 61.969 108.718 1 00 23 74
		CA THR D 250	23.272 61.701 109 820 1 00 33 01 N
ATON		CB THR D 250	24.543 62 578 109 605 1 00 00 00
ATON		OG1 THR D 250	25.365 62.086 108 617 1.00 25.77 C
ATON		CG2 THR D 250	25.424 62.428 110 942 1 00 04 00
ATON		C THR D 250	22.520 62.005 111 000 1 00 00 00 C
ATOM		O THR D 250	20 155 22.000 23.00
ATOM		N PRO D 251	
ATOM		CA PRO D 251	21 410 51 1.00 22.03 N
ATOM		CB PRO D 251	23 455 50 22.29
ATOM		CG PRO D 251	21.13.949 1.00 22.27
· ATOM		CD PRO D 251	22.543 50.556 113.006 1.00 21.63
ATOM	I 11775 C	C PRO D 251	01 041 7
ATOM	1 11776	PRO D 251	22.440 114.002 1.00 22.45 . C
ATOM	i 11777 N	N TRP D 252	21.02 02.032 114.044 1.00 22.32
ATOM		CA TRP D 252	31.322 03.134 114.645 1.00 22.89 N
ATOM		CB TRP D 252	113.621 1.00 23.20
ATOM		CG TRP D 252	13.841 1.00 23.25 C
ATOM		DD1 TRP D 252	20.347 66.211 116.785 1.00 22.82 C
ATOM		NE1 TRP D 252	19.004 66.301 118.071 1.00 23 00
ATOM	11789 C	E2 TRP D 252	20.249 67.508 118.619 1 00 22 54
ATOM	11790 C	D2 TRP D 252	20.961 68.223 117.693 1.00 20 94
ATOM		E3 TRP D 252	21.041 67.437 116.525 1.00 21 09
ATOM		Z3 TRP D 252	21./12 6/.957 115.418. 1.00 19 19
ATOM		H2 TRP D 252	22.281 69.207 115.510 1.00 19 44
ATOM		Z2 TRP D 252	^{22.194} 69.963 116.688 1 00 10 35
ATOM			21.545 69.484 117.790 1.00 20 0g
ATOM	11800 0	1KF D 252	21.730 63.472 116.928 1.00 23 76
ATOM	11801 N		20.969 62.645 117.429 1 00 23 42
ATOM	11802 C		22.905 63.792 117.483 1.00 24 27
ATOM			23.396 63.095 118.684 1.00 24 96
ATOM		200	24.851 63.570 118.782 1.00 25 11
ATOM		2 200	24.834 64.960 118.129 1.00 24 29
ATOM		2 200	23.846 64.833 117.020 1.00 23 79
ATOM			22.630 63.460 119.965 1.00 25 47
ATOM			22.438 64.633 120.217 1.00 25 12
ATOM			22.229 62.467 120.758 1.00 26 64
ATOM			21.485 62.709 122.000 1.00 27 24
ATOM			19.976 62.544 121.766 1.00 27 66
ATOM			19.017 63.271 122.725 1.00 28 68
ATOM		D1 LEU D 254	17.671 63.554 122.025 1.00 29 38
ATOM		D2 LEU D 254	18.808 62.484 124.047 1.00 28 27
ATOM		LEU D 254	21.955 61 747 122 077 1 00 07
ATOM	11833 0	LEU D 254	23.095 61.829 123 524 1 00 27 35
	11834 N	ALA D 263	30.857 65.517 119 743 1 00 15 00
ATOM	11836 CA		29.511 66 081 110 041 1 00 13.02 N
ATOM	11838 CE		29.334 66.786 121 100 15.12 C
ATOM	11842 C	ALA D 263	29.243 67.060 118 699 1 00 15.15 C
ATOM	11843 0	ALA D 263	28.303 66.893 117 015 1.00 15.39 C
ATOM	11844 N	ARG D 264	30.098 68.077 118 619 1.00 15.04
ATOM	11846 CA	ARG D 264	29.892 69 248 117 760 1.00 15.54 N
ATOM	11848 CB	3 ARG D 264	30.954 70.302 110.100 15.58 C
ATOM	11851 CG	ARG D 264	30.868 71 599 117 300 1.00 15.89 C
ATOM	11854 CD	ARG D 264	32.120 72.463.117.405.1:00.17.92 C
ATOM	11857 NE	ARG D 264	32.058 73.391 118 544 1.00 21.00 C
ATOM	11859 CZ	ARG D 264	33.010 73.564.119.469 1.00.23.39 N
ATOM	11860 NH	11 ARG D 264	24 142 77 77 77 77 77 77 77 77 77 77 77 77 77
			34.143 72.872 119.436 1.00 24.73 N

ATOM	11863	NH2	ARG	D	264	32.8	22	74.	448	120.445	1.00	2	4.83		N
ATOM	11866	C	ARG			29.9				116.281	1.00	1	.5.32		С
ATOM	11867	ŏ	ARG			29.2		69.	545	115.484	1.00	1	6.01		0
ATOM	11868	N	GLN			30.8				115.896	1.00	1	4.71		N
MOTA	11870	CA	GLN			31.0				114.501	1.00	1	4.45		С
ATOM	11872	CB	GLN			32.2				114.335	1.00	) 1	4.27		С
ATOM	11875	CG	GLN			32.7				112.924	1.00	) 1	L5.64		С
ATOM	11878	CD	GLN			32.8				112.170			17.15		С
ATOM	11879	OE1	GLN			33.3				112.706	1.00	) 2	20.03		0
ATOM	11880	NE2	GLN			32.3		67.	925	110.934	1.00	) 1	18.99	•	N
MOTA	11883	C			265	29.				113.938	1.00	) ]	13.72		С
ATOM	11884	ō			265	29.2		67.	510	112.836	1.00	) ]	13.91		0
ATOM	11885	N			266	29.		66.	252	114.739	1.00	) :	12.91		N
ATOM	11887	CA			266	28.3		65.	325	114.235	1.00	) :	11.84		С
ATOM	11889	CB			266	27.9	945	64.	059	115.134	1.00	) :	11.26		С
ATOM	11892	CG			266	26.8	335			114.605	1.00	) :	10.67		С
ATOM	11895	CD			266	26.	473	62.	038	115.472	1.00	)	9.95		C
ATOM	11896	OE1	GLN	D	266	27.	441			115.906	1.00	) :	14.03		0
ATOM	11897				266	25.	095			115.695	1.00		9.62		N
ATOM	11900	С			266	26.	893			114.044			10.73		C.
ATOM	11901	0	GLN	D	266	26.	124	65.	836	113.138			10.79		0
ATOM	11902	N	ARG	D	267	26.	711	67.	150	114.880			10.72		N
ATOM	11904	CA	ARG	D	267	25.				114.690	1.0		9.57		С
ATOM	11906	CB	ARG	D	267	25.				115.851			10.02		C
MOTA	11909	CG			267	25.				117.165			11.16		C
ATOM	11912	CD	ARG	D	267	25.				118.383			12.48		С
MOTA	11915	NE			267	24.				119.462			14.21		N
MOTA	11917	CZ			267	24.				120.411			14.60		С
MOTA	11918	NH1			267	26.		67.	555	120.483			16.97		N
MOTA	11921				267	24.				121.302			16.03		N
ATOM	11924	С			267	25.				113.371	1.0		8.78		C
MOTA	11925	0			267	24.				112.648	1.0		8.97		0
ATOM	11926	N			268		054			113.095	1.0		7.58		И
MOTA	11928	CA			268		375			111.908	1.0		8.70		C
ATOM	11930	CB			268		790			112.062	1.0		8.84		C
MOTA	11933	CG			268		219			110.957			10.11		C
MOTA	11934				268		729			110.887			11.63 11.77		C
MOTA	11936				268		142			109.868 108.922			12.70		C
ATOM	11938	CZ			268		060			108.922			11.80		C
MOTA	11940				268		562 145			110.003			11.22		č
ATOM	11942				268		245			110.625	1.0		9.18		č
ATOM	11944	C			268 268		834			109.592	1.0		9.25		ŏ
MOTA	11945 11946	O N			269		602			110.723			10.13		N
MOTA		CA			269		536	66	911	109.618	1.0		10.21		C
ATOM ATOM					269		250	65	. 598	110.063	1.0		10.31		C
ATOM		C			269		083			2 109.228			10.91		С
ATOM					D 269		729			108.035			12.36		0
ATOM					D 270		258			2 110.264			11.18		N
ATOM					D 270		750			6 110.215			11.49		С
ATOM					D 270		176			6 111.661			11.52		С
ATOM					D 270		683			4 111.742			10.43		С
ATOM					D 270		923			2 111.597			11.21		N
ATOM					D 270		. 646			3 111.764			10.17		С
ATOM					D 270		.553			1 112.026	1.0	00	10.35		N
ATOM			2 HI	S	D 270		.813			8 112.029			10.38		C
ATOM					D 270		.211			8 109.459	1.0		11.03		С
ATOM					D 270		.516	67	.54	0 108.464	1.0		10.07		0
ATOM					D 271		.531		.90	0 109.93			12.19		N
ATOM					D 271		.949			7 109.352	1.		12.95		С
ATOM					D 271		.338		.40	3 110.12	1.	00	12.73		С

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ATO	M 1198	CG PHE D 271	20 -		
ATO			22.560		85 1.00 13.70
ATO			21.203		67: 1 nn 12 na
ATO			20.500		33 1 00 12 61
ATON	1 11988	CE2 PHE D 271	21.137		46 1 00 14 47
ATON			22.484		92 1 00 14 60
ATOM	1 11992		23.197		$07 - 1.00 \cdot 15 \cdot 14$
ATOM	1 11993		23.384	· • O :	99 1.00 13 45
ATOM			22.601		99 1 00 12 50
ATOM			24.621		53 1 00 12 00
ATOM	1 11998		25.086		73 1 00 14 55
ATOM			26.635		8 1 00 14 51
ATOM			27.122		75 1 00 15 24
ATOM			27.306		2 1 00 15 04
ATOM			24.445		6 1 00 14 45
ATOM			24.234		4 7 00 14 02
ATOM	12010	CA GLU D 273	24.099		5 1 00 14 40
ATOM	. 12012	CB GLU D 273	23.338		9 1 00 14 64
MOTA	. 12015	CG GLU D 273	23.426	65.719 105.81	9 1 00 14 06
ATOM		CD GLU D 273	24.778	65.038 105.64	7 1.00 16 16
ATOM		OE1 GLU D 273	24.830	63.592 106.16	9 1.00 10 22
ATOM	12020	OE2 GLU D 273	23.809	62.878 106.07	5 1.00 10 66
ATOM	12021	C GLU D 273	25.899	63.167 106.67	7 1.00 17 51
ATOM	12022	O GLU D 273	21.888	67.443 104.84	2 1 00 15 07
ATOM	12023	N LEU D 274	21.340	67.154 103.79	4 7.00 14 70
ATOM	12025	CA LEU D 274	21.272	68.137 105.80	5 1 00 16 22
ATOM	12027	CB LEU D 274	19.953	68.721 105.60	6 1 00 16 15
ATOM	12030	CG LEU D 274	19.436	69.337 106.92	8 1.00 16 45
ATOM	12032	CD1 LEU D 274	19.056	68.335 108.02	6 1.00 16.01
ATOM	12036	CD2 LEU D 274	18.540	69.067 109.26	3 1.00 16 34
ATOM	12040	C LEU D 274	18.000	67.367 107.49	9 1.00 16 01
MOTA	12041	O LEU D 274	20.056	69.776 104.51	5 1.00 16.68
ATOM	12042	N ALA D 275	19.120	69.983 103.73	7 1.00 17.92
ATOM	12044	CA ALA D 275	21.186 21.356	70.471 104.489	1.00 16.79
ATOM	12046	CB ALA D 275	22.500	71.617 103.597	1.00 16.89
ATOM	12050	C ALA D 275	21.583	72.509 104.061	1.00 16 76
MOTA	12051	O ALA D 275	21.303	71.118 102.192	1.00 17 11
ATOM	12052	N ILE D 276	22.090	71.812 101.234	
ATOM	12054	CA ILE D 276	22.223	69.900 102.066	
ATOM	12056	CB ILE D 276	23.154	69.283 100.760	
ATOM	12058	CG1 ILE D 276	24.608	68.035 100.816	,
ATOM	12061	CD1 ILE D 276	25.608	68.473 100.639	1.00 18.87
MOTA	12065	CG2 ILE D 276	22.794	67.385 100.887	1.00 18.69
MOTA	12069	C ILE D 276	20.832	67.012 99.727	1.00 18.15
ATOM	12070	O ILE D 276	20.526	68.935 100.221 69.241 99.077	1.00 18.77
MOTA	12071	N ILE D 277	20.001		1.00 18.97
ATOM	12073	CA ILE D 277	18.626	68.310 101.058	1.00 19.19
MOTA	12075	CB ILE D 277	17.814	67.977 100.694 67.396 101.907	1.00 19.42
ATOM	12077	CG1 ILE D 277	18.524	67.396 101.907	1.00 19.72
ATOM	12080	CD1 ILE D 277	19.224	66.239 102.634 65.322 101.768	1.00 18.37
ATOM	12084	CG2 ILE D 277	16.448		1.00 19.65
ATOM	12088	C ILE D 277	17.908		1.00 20.12
ATOM	12089	O ILE D 277	17.204		1.00 19.62
MOTA	12090	N SER D 278	18.096		1.00 19.60
ATOM	12092	CA SER D 278	17.355		1.00 19.92
ATOM	12094	CB SER D 278	17.558		1.00 20.02
ATOM	12097	OG SER D 278			1.00 19.97
ATOM	12099	C SER D 278			1.00 21.92
ATOM	12100	O SER D 278			1.00 19.78
	12101	N VAL D 279			1.00 19.35
ATOM	12103	CA VAL D 279	19.576		1.00 19.89
				72.580 97.641	1.00 19.81

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ATOM	12105	CB '	VAL [	279	21.126	72.501	97.591	1.00 19.42	С
ATOM	12107			279	21.637	72.653	96.153	1.00 19.77	С
ATOM	12111			279	21.748	73.576	98.443	1.00 18.88	С
ATOM	12115	C '	VAL I	279	18.982	71.734	96.522	1.00 20.45	С
ATOM	12116	0	VAL I	279	18.659	72.259	95.466	1.00 19.99	0
ATOM	12117			280	18.835	70.432	96.767	1.00 21.26	. N
ATOM	12119	CA	GLN I	280	18.253	69.518	95.793	1.00 21.89	С
ATOM	12121	CB	GLN I	D 280	18.454	68.061	96.226	1.00 22.04	C
MOTA	12124			D. 280	19.872	67.550	95.960	1.00 22.96	C
MOTA	12127			D 280	20.046	66.071	96.261	1.00 24.00	C
MOTA	12128	OE1	GLN :	D 280	20.010	65.662	97.426	1.00 24.83	0
MOTA	12129			D 280	20.235	65.266	95.213	1.00 23.62	N
ATOM	12132	C		D 280	16.774	69.799	95.496	1.00 22.33	C
MOTA	12133	0		D 280	16.340	69.632	94.367	1.00 22.96	0
MOTA	12134			D 281	16.010	70.205	96.500	1.00 22.93	С
ATOM	12136	CA		D 281	14.615	70.609	96.310	1.00 23.51	c
ATOM	12138	СВ		D 281	13.922	70.779	97.667 98.254	1.00 23.43 1.00 23.68	Č.
ATOM	12141	CG		D 281	13.495	69.457 69.463	99.760	1.00 25.28	Č
MOTA	12144	CD		D 281 D 281	13.353 13.729		100.343	1.00 25.20	ŏ
ATOM	12145	OE1		D 281	12.861		100.359	1.00 24.67	·o
ATOM	12146	C		D 281	14.496	71.921	95.542	1.00 23.98	Č
MOTA	12147 12148	0		D 281	13.561	72.114	94.762	1.00 24.80	Ō
MOTA MOTA	12149	N		D 282	15.439		95.774	1.00 23.97	N
ATOM	12151	CA		D 282	15.439	74.118	95.115	1.00 24.13	С
MOTA	12153	CB		D 282	16.421	75.055	95.838	1.00 23.78	C
ATOM	12155	CG1		D 282	15.867			1.00 24.74	С
ATOM	12158	CD1		D 282	16.916		98.309	1.00 23.97	C
ATOM	12162	CG2		D 282	16.662	76.327	95.020	1.00 23.83	C
MOTA	12166	С	ILE	D 282	15.751		93.600	1.00 24.22	C
ATOM	12167	0			15.155		92.787	1.00 24.55	0
MOTA	12168	N		D 283	16.670		93.234	1.00 24.41	. С
MOTA	12170	CA		D 283	16.956		91.820	1.00 24.66	C
MOTA	12172	CB		D 283	18.235		91.676 90.260	1.00 24.33 1.00 24.13	c
MOTA	12174			D 283	18.391		92.072	1.00 23.75	Ċ
MOTA	12178			D 283 D 283	19.473 15.761		91.163	1.00 25.36	č
MOTA	12182 12183	C O		D 283	15.421		90.018	1.00 25.75	Ō
ATOM ATOM		N		D 284	15.122		91.895	1.00 26.12	N
ATOM				D 284	13.939		91.407	1.00 26.56	C
ATOM		CB		D 284	13.477		92.449	1.00 26.78	C
ATOM				D 284	14.515		92.682	1.00 27.85	C
ATOM				D 284	14.259		93.538		0
ATOM			ASP	D 284	15.603		92.054		0
ATOM	12194	С		D 284	12.782		91.138	1.00 26.95	C
MOTA				D 284	12.04		90.179		0
ATOM				D 285	12.622				N
ATOM				D 285	11.41				C
ATOM				D 285	11.29				C
ATOM				D 285	10.17				č
MOTA				D 285	8.85 7.82				· C
ATOM				D 285	8.11				C
MOTA				D 285	9.43				C
MOTA MOTA				D 285	10.45				C
NOTA NOTA				D 285	11.43				C
ATON				D 285	10.43				0
OTA				D 286	12.59			1.00 28.10	N
ATO				D 286	12.73		89.602		C
ATO			ALF	D 286					C
ATO				A D 286		6 75.475	88.170	1.00 28.29	С

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ATOM	12225	0	ALA	D 286	12.360	76 260	07 055			
ATOM				D 287	12.734	76.262		1.00 28.87		0
ATOM				D 287		74.169		1.00 28.01		N
ATOM				D 287	12.422	73.559	86.676	1.00 27.63		. С
ATOM				D 287	12.979	72.134	86.616	1.00 27.51		Ċ
ATOM			TVC	D 287	14.495	72.052	86.779	1.00 27.18		Ċ
ATOM		CE			15.172	71.370	85.606	1.00 26.98		Č
ATOM				D 287	16.398	70.598	86.049	1.00 26.86		č
ATOM			TIS	D 287	17.334	71.436	86.856	1.00 27.39		N
ATOM				D 287	10.913	73.524	86.373	1.00 27.49		C
ATOM		0		D 287	10.516	73.471	85.203	1.00 27.79		ŏ
ATOM		N		D 288	10.091	73.531	87.422	1.00 27.27		N
		CA		D 288	8.626	73.517	87.304	1.00 26.99		
ATOM		CB	GLN	D 288	7.953	72.736	88.465	1.00 27.01		, C
ATOM		CG	GLN	D 288	8.863	71.878	89.396	1.00 26.76		C
ATOM	12258	CD	GLN	D 288	9.458	70.660	88.723	1.00 25.89		C
ATOM		OE1	GLN	D 288	9.535	70.602	87.493	1.00 25.79		C
ATOM		NE2	GLN	D 288	9.897	69.684	89.528	1.00 25.05		0
ATOM	12263	С	${ t GLN}$	D 288	8.043	74.941	87.257	1.00 26.93	•	N .
ATOM	12264	0	GLN	D 288	6.844	75.108	87.028		•	С
ATOM	12265	N	VAL	D 289	8.877	75.955	87.517	1.00 26.61		0
ATOM	12267	CA		D 289	8.426	77.352	87.510	1.00 27.06		N
ATOM	12269	CB	VAL	D 289	9.379	78.326	88.303	1.00 27.16		C
ATOM	12271	CG1	VAL	D 289	8.891	79.799		1.00 27.22		С
ATOM	12275	CG2	VAL	D 289	9.470	77.922	88.205	1.00 27.25		С
ATOM	12279	С	VAL	D 289	8.328	77.764	89.763	1.00 26.81		C
MOTA	12280	0	VAL	D 289	9.332	77.715	86.051	1.00 27.19		С
ATOM	12281	N		D 290	7.126		85.335	1.00 27.05		0
ATOM	12282	CA		D 290		78.142	85.605	1.00 27.38		N
ATOM	12284	CB	PRO	D 290	6.897	78.447	84.183	1.00 27.53		С
MOTA	12287	CG	PRO	D 290	5.381	78.718	84.093	1.00 27.35		С
ATOM	12290	CD		D 290	4.873	78.829	85.482	1.00 27.65		С
ATOM	. 12293	C	.DBO	D 290.	5.898	78.282	86.415	1.00 27.30	•	C.
ATOM	12294	Ö		D 290. D 290	7.699	79.645	83.668	1.00 27.65		Ċ
ATOM	12295	N		D 290 D 291	7.530	80.781	84.151	1.00 27.72		Ö
MOTA	12297	CA	CIV	D 291 D 291	8.566	79.374	82.686	1.00 27.90		Ŋ
ATOM	12300	C			9.396	80.402	82.090	1.00 28.23		Ç
ATOM	12301	0	CIV	D 291 D 291	10.813	80.395	82.622	1.00 28.44		č
ATOM	12301	N			11.585	81.323	82.353	1.00 28.97		ŏ
ATOM	12302	CA		D 292	11.153	79.359	83.390	1.00 28.38		Ŋ
ATOM	12304	CB	PUE !	D 292	12.541	79.097	83.782	1.00 28.34		Ċ
ATOM	12309	CG		D 292	12.582	78.421	85.153	1.00 28.26		Č
ATOM	12310		PHE	D 292	13.969	78.304	85.731	1.00 28.51		č
ATOM	12310	CD1	PHE I	D 292	14.585	79.403	86.346	1.00 29.08		č
ATOM	12314		PHE I	292	15.864	79.289	86.895	1.00 29.07		č
ATOM		CZ	PHE	D 292	16.528	78.066	86.840	1.00 29.24		č
ATOM	12316 12318	CEZ	PHE I	292	15.913	76.964	86.240	1.00 28.66		C
ATOM			PHE I		14.644	77.089	85.698	1.00 28.29		Č
ATOM	12320 12321	C	PHE [	292	13.219	78.216	82.691	1.00 28.38	•	C
ATOM		0	PHE I	292	14.393	78.434	82.310	1.00 28.41		.0
	12322	N	LEU I	293	12.476	77.232	82.184	1.00 28.18		
ATOM ATOM	12324	CA	LEU I	293	12.965	76.387	81.080	1.00 28.35		N C
	12326	CB	LEU I	293	12.044	75.182	80.835	1.00 28.15		C
ATOM	12329	CG	LEU I	293	11.584	74.346	82.039	1.00 28.44		C _.
ATOM	12331	CD1	LEU [	293	10.516	73.358	81.587	1.00 27.76		
ATOM	12335		TEA L	293	12.746	73.629	82.737	1.00 28.24		C
ATOM	12339	С	LEU [	293	13.079	77.204	79.787	1.00 28.33		C
ATOM	12340		LEU [	293	13.997	77.010	78.991	1.00 28.19		C
ATOM	12341	N	GLN [	294	12.144	78.141	79.618	1.00 28.19	•	.0
ATOM	12343	CA	GLN D	294	12.107	79.057	78.475	1.00 28.46		N
ATOM	12345	CB	GLN [	294	10.831	79.920	78.570	1.00 28.18		C
MOTA	12348	CG	GLN [	294	10.466	80.703	77.276		,	C
MOTA	12351	CD	GLN D	294	10.260	82.221	77.500	1.00 27.59		C
			•					1.00 27.61		· C

ATOM	12352		GLN			9.567	82.632	78.443	1.00 27.74	0
MOTA	12353	NE2	-			10.861	83.053	76.639	1.00 26.90	N
ATOM	12356	C	GLN	D	294	13.353	79.970	78.391	1.00 28.23	C
ATOM	12357	0	GLN	D	294	13.645	80.540	77.318	1.00 28.13	Ö
MOTA	12358	N	LEU			14.060	80.109	79.540	1.00 28.25	N
ATOM	12360	CA	LEU	D	295	15.302	80.897	79.636	1.00 28.11	C
MOTA	12362	CB	LEU	D	295	15.630	81.226	81.121	1.00 28.04	Č
ATOM	12365	CG	LEU	D	295	15.554	82.709	81.532	1.00 28.57	C
MOTA	12367	CD1	LEU	D	295	15.640	82.876	83.056	1.00 28.80	Č
MOTA	12371	CD2	LEU	D	295	16.640	83.533	80.833	1.00 28.63	Č
ATOM	12375	С	LEU	D	295	16.495	80.163	78.975	1.00 27.70	Č
MOTA	12376	0	LEU	D	295	16.357	79.018	78.529	1.00 27.52	Õ
ATOM	12377	N	GLY	D	296	17.653	80.835	78.927	1.00 27.22	. N
MOTA	12379	CA	GLY			18.927	80.182	78.639	1.00 26.39	Ċ
MOTA	12382	С	GLY	D	296	19.314	79.225	79.784	1.00 26.06	Č
MOTA	12383	0	GLY	D	296	18.913	79.434	80.958	1.00 25.82	o
ATOM	12384	N	ARG			20.097	78.188	79.461	1.00 25.25	N
ATOM	12386	CA	ARG			20.495	77.161	80.443	1.00 24.86	c
ATOM	12388	CB	ARG			20.919	75.865	79.734	1.00 24.84	č
ATOM	12391	CG			297	20.364	74.576		1.00 24.74	č
MOTA	12394	CD	ARG			20.206	73.445	79.331	1.00 24.92	č
ATOM	12397	NE	ARG			21.310	73.414	78.361	1.00 24.99	N
MOTA	12399	CZ			297	21.184	73.382	77.030	1.00 25.02	č
ATOM	12400		ARG			19.992	73.368	76.439	1.00 25.26	Й
MOTA	12403		ARG			22.277	73.358	76.274	1.00 25.43	N
MOTA	12406	С			297	21.628	77.648	81.360	1.00 24.55	Ċ
MOTA	12407	0			297	21.660	77.313	82.548	1.00 24.58	Ö
MOTA	12408	N			298	22.557	78.433	80.812	1.00 24.01	N
MOTA	12410	CA			298	23.584	79.090	81.631	1.00 23.59	Ċ
ATOM	12412	СВ			298	24.625	79.757	80.737	1.00 23.52	č
ATOM	12415	CG			298	25.440	78.774	79.907	1.00 23.01	č
MOTA	12418	CD	GLU			26.123	79.421	78.714	1.00 22.51	č
ATOM	12419		GLU			26.009	80.652	78.552	1.00 22.35	ŏ
ATOM	12420		GLU			26.781	78.698	77.936	1.00 21.54	ŏ
MOTA	12421	C	GLU			22.934	80.134	82.551	1.00 23.51	Č
ATOM	12422	0			298	23.381	80.375	83.704	1.00 23.44	ŏ
ATOM	12423	N			299	21.862	80.740	82.036	1.00 23.15	Ŋ
ATOM	12425	CA			299	21.087	81.711	82.789	1.00 23.01	Ċ
MOTA	12427	CB			299	20.078	82.417	81.860	1.00 22.83	č
MOTA	12430	CG			299	20.717	83.756	81.142	1.00 22.93	Ċ
ATOM	12431	OD1	ASP			21.119	84.501	82.342	1.00 24.43	Ō
ATOM	12432		ASP			20.873	84.135	79.437	1.00 21.52	Ö
ATOM	12433	С			299	20.400	81.101	84.024	1.00 22.79	Č
ATOM	12434	0	ASP	D	299	20.202	81.793	85.039	1.00 23.01	Ō
MOTA	12435	N	GLN	D	300	20.054	79.811	83.940	1.00 22.49	N
ATOM	12437	CA	GLN	D	300	19.496	79.076	85.083	1.00 22.30	Ċ
ATOM	12439	CB			300	18.956	77.720	84.632	1.00 22.53	Ċ
ATOM	12442	CG			300	17.777	77.794	83.684	1.00 22.81	Ċ
MOTA	12445	CD	GLN	D	300	17.348	76.352	83.232	1.00 25.00	Č
ATOM	12446	OE1	GLN			16.161	76.074	82.932	1.00 27.61	Ö
ATOM	12447	NE2	GLN	D	300	18.313	75.420	83.157	1.00 25.87	N
ATOM	12450	С			300	20.536	78.854	86.178	1.00 21.65	Ċ
ATOM	12451	0	GLN	D	300	20.199	78.809	87.344	1.00 21.44	Ō
MOTA	12452	N			301	21.798	78.693	85.784	1.00 21.29	N
MOTA	12454	CA	ILE	Đ	301	22.893	78.486	86.741	1.00 20.83	Ċ
MOTA	12456	CB	ILE	D	301	24.200	78.063	86.008	1.00 20.65	Ċ
MOTA	12458	CG1	ILE	D	301	23.997	76.768	85.199	1.00 20.83	č
MOTA	12461	CD1	ILE	D	301	25.057	76.532	84.117	1.00 20.59	Č
ATOM	12465		ILE			25.344	77.879	87.008	1.00 20.52	Ċ
ATOM	12469	С			301	23.169	79.726	87.656	1.00 20.35	č
MOTA	12470	0			301	23.414	79.554	88.840	1.00 19.89	Ō
		<del></del>								

MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	12473 12475 12479 12480 12481 12483 12485 12498 12499 12500 12502 12504	CA ALA D 302 CB ALA D 302 C ALA D 302 O ALA D 302 N LEU D 303 CA LEU D 303 CB LEU D 303 CG LEU D 303 CD1 LEU D 303 CD2 LEU D 303 C LEU D 303 O LEU D 303 N LEU D 304 CA LEU D 304 CA LEU D 304 CB LEU D 304	23.153 23.590 23.850 22.517 22.805 21.260 20.130 18.812 18.558 17.155 18.770 20.165 19.912 20.491 20.432 20.355	80.954 87.093 82.168 87.805 83.284 86.808 82.597 88.812 83.014 89.994 82.490 88.324 82.780 89.160 82.633 88.388 83.676 87.275 83.525 86.665 85.100 87.802 81.826 90.334 82.255 91.474 80.549 90.088 79.533 91.158 78.109 90.596	1.00 19.63 1.00 20.06 1.00 20.17 1.00 19.10 1.00 19.99 1.00 19.26 1.00 19.41 1.00 19.77 1.00 19.43 1.00 19.37 1.00 19.62 1.00 19.24 1.00 19.36 1.00 19.40	
ATOM		CG LEU D 304	18.940	77.536 90.438	1.00 20.03	
ATOM ATOM	12509 12513	CD1 LEU D 304 CD2 LEU D 304	18.427	77.048 91.768	1.00 20.31	
ATOM	12517	C LEU D 304	17.963 21.592	78.561 89.857 79.660 92.121		•
MOTA	12518	O LEU D 304	21.411	79.508 93.320	1.00 19.18 1.00 19.22	
ATOM ATOM	12519	N LYS D 305	22.771	79.978 91.601	1.00 19.09	
ATOM	12521 12523	CA LYS D 305 CB LYS D 305	23.942	80.227 92.449	1.00 19.09	
ATOM	12526	CG LYS D 305	25.210 26.286	80.469 91.609 79.415 91.827		
ATOM	12529	CD LYS D 305	27.371	79.478 90.774		
ATOM ATOM	12532	CE LYS D 305	28.747	79.098 91.342	1.00 20.24	
ATOM	12535 12539	NZ LYS D 305 C LYS D 305	29.539	78.242 90.389	1.00 18.52	
ATOM	12540	O LYS D 305	23.718 24.157	81.390 93.436 81.307 94.579		
ATOM	12541	N ALA D 306	23.045	82.459 93.001	1.00 18.44 1.00 18.73	
ATOM ATOM	12543 12545	CA ALA D 306	22.747	83.600 93.900	1.00 19.18	
ATOM	12549	CB ALA D 306 C ALA D 306	22.711	84.906 93.108	1.00 19.22	
MOTA	12550	O ALA D 306	21.452 21.347	83.437 94.724 83.950 95.826	1.00 18.51 1.00 18.87	
ATOM	12551	N SER D 307	20.507	82.668 94.197	1.00 18.87	
ATOM ATOM	12553 12555	CA SER D 307	19.182	82.506 94.776	1.00 17.97	
ATOM	12558	CB SER D 307 OG SER D 307	18.174	82.212 93.667	1.00 17.87	
ATOM	12560	C SER D 307	16.940 19.044	82.838 93.933 81.407 95.835	1.00 19.67	
ATOM	12561	O SER D 307	18.158	81.512 96.717	1.00 17.63 1.00 17.83	
ATOM	12562	N THR D 308	19.881	80.364 95.764	1.00 16.65	
ATOM ATOM	12564 12566	CA THR D 308 CB THR D 308	19.637	79.138 96.530	1.00 15.86	
ATOM	12568	OG1 THR D 308	20.696 20.625	78.051 96.243 77.615 94.870	1.00 16.18	
ATOM	12570	CG2 THR D 308	20.400	76.778 97.078	1.00 14.34 1.00 15.13	
ATOM ATOM	12574	C THR D 308	19.590	79.414 98.026	1.00 15.13	•
ATOM	12575 12576	O THR D 308 N ILE D 309	18.659	78.989 98.700	1.00 16.03	
ATOM	12578	CA ILE D 309	20.586 20.639	80.136 98.531 80.508 99.940	1.00 15.72	
ATOM	12580	CB ILE D 309	21.986	80.508 99.940 81.201 100.304	1.00 15.67 1.00 15.54	
MOTA	12582	CG1 ILE D 309	22.150	81.320 101.835	1.00 15.54	
ATOM ATOM	.12585 12589	CD1 ILE D 309 CG2 ILE D 309	22.250	79.976 102.561	1.00 17.20	
ATOM	12593	CG2 ILE D 309 C ILE D 309	22.080 19.447	82.580 99.689	1.00 15.04	
ATOM	12594	O ILE D 309	18.935	81.382 100.337 81.268 101.436	1.00 15.85 1.00 15.28	
ATOM	12595	N GLU D 310	19.000	82.252 99.445	1.00 15.28	•
ATOM ATOM	12597 12599	CA GLU D 310 CB GLU D 310	17.871	83.116 99.775	1.00 16.39	
ATOM	12602	CB GLU D 310	17.709 18.863	84.213 98.740	1.00 16.24	
MOTA	12605	CD GLU D 310	18.715	85.197 98.770 86.298 97.733	1.00 16.79 1.00 19.76	
					2.00 19.70	-

ATOM ATOM ATOM ATOM	12606 12607 12608 12609			D D		17.562 19.752 16.581 15.795	86.586 86.874 82.319	97.318 99.929	1.00 20.43 1.00 21.53 1.00 16.61	
ATOM	12610	N			311	16.383	81.311	100.825 99.077	1.00 16.54 1.00 16.88	
ATOM	12612	CA			311	15.196	80.455	99.138	1.00 16.43	
ATOM ATOM	12614 12616	CB CC1			311	15.024	79.642		1.00 16.32	
ATOM	12619	CD1	ILE	מ	311 311	14.906 15.328	80.573 79.946		1.00 17.54	
ATOM	12623	CG2	ILE	D	311	13.786	78.745		1.00 18.82 1.00 15.41	
ATOM	12627	С	ILE	D	311	15.282		100.327	1.00 15.41	
ATOM	12628	0			311	14.278	79.180	100.937	1.00 16.16	
MOTA MOTA	12629 12631	N CA			312 312	16.487		100.640	1.00 16.61	
ATOM	12633	CB			312	16.723 18.201	78.240	101.845 101.954	1.00 16.86	
ATOM	12636	CG			312	18.607	76.768	101.954	1.00 17.19 1.00 18.43	
MOTA	12639	SD			312 312	20.289	76.170	101.289	1.00 22.20	
MOTA MOTA	12640	CE	MET	D	312	20.250	75.803	103.019	1.00 18.61	
ATOM	12644 12645	C O			312 312	16.317 15.593		103.068	1.00 16.07	
MOTA	12646	N			313	16.768	80 280	103.911 103.139	1.00 14.90 1.00 16.68	
MOTA	12648	CA	LEU	D	313	16.365	81.180	104.223	1.00 10.68	
MOTA	12650	CB			313	17.053	82.525	104.083	1.00 16.94	
MOTA MOTA	12653	CG	LEU	D	313	18.547	82.513	104.400	1.00 17.76	
ATOM	12655 12659	CD1	TEU	ח	313	19.208 18.804	83.823	103.952	1.00 18.34	
MOTA	12663	C	LEU	Ď	313 313	14.857	81 362	105.860 104.305	1.00 19.95 1.00 16.87	
MOTA	12664	0	LEU	D	313	14.275	81.284	105.387	1.00 10.87	
MOTA	12665	N	LEU	D	314	14 225	81.577	103.168	1.00 17.10	
MOTA MOTA	12667 12669	CA	LEU	D	314	12.757		103.099	1.00 17.60	
ATOM	12672	CG	LEU	ח	314 314 314	12.306 11.507	81.977	101.652 101.229	1.00 17.58	
ATOM	12674	CD1	LEU	Ď	314	11.771		101.229	1.00 17.28 1.00 18.29	
MOTA	12678	CDZ	TEO	υ	314	11.791	83.517	99.748	1.00 18.29	
MOTA	12682	C	LEU	ט	314	12.072	80.418	103.610	1.00 18.05	
ATOM ATOM	12683 12684	N O			314		80.498	104.351	1.00 17.73	
ATOM	12686	CA			315 315	12.580 11.977	79.244	103.217 103.648	1.00 19.15	
ATOM	12688	CB	GLU			12.464	76.794	102.804	1.00 19.85 1.00 20.52	
MOTA	12691	CG		_			76.749	101.427	1.00 24.01	
ATOM ATOM	12694	CD	GLU	D	315	10.377	76.299	101.474	1.00 28.61	
ATOM	12695 12696	OE3	GTU	מ	315 315	10.126 9.490	75.141	101.884		
MOTA	12697	C	GLU	D	315	12.244	77.696	101.095 105.119	1.00 32.59 1.00 18.94	
MOTA	12698	0	GLU			11.438	77.062	105.804	1.00 18.94	
ATOM	12699	N	THR			13.377	78.171	105.588	1.00 18.70	
MOTA MOTA	12701 12703	CA CB	THR			13.721	78.126	107.005	1.00 19.28	
ATOM	12705		THR THR	ם	316	15.175 16.031	78.587	107.158 106.594	1.00 19.77	
MOTA	12707	CG2	THR	Ď	316	15.596		108.594	1.00 18.05 1.00 19.73	
ATOM	12711	С	THR	D	316	12.750	78.964	107.855	1.00 19.73	
MOTA MOTA	12712	0	THR			12.172	78.466	108.816	1.00 18.48	
MOTA	12713 12715	N CA	ALA ALA			12.519		107.457	1.00 19.55	
ATOM	12717	CB	ALA			11.505 11.361	82 387	108.120 107.407	1.00 19.26	
MOTA	12721	c	ALA			10.144	80.373	107.407	1.00 19.52 1.00 19.33	
MOTA	12722	0	ALA	D	317	9.431	80.420	109.214	1.00 19.33	
ATOM ATOM	12723	N	ARG			9.769	79.737	107.106	1.00 18.89	
ATOM	12725 12727	CA CB	ARG ARG			8.474	79.086	107.014	1.00 18.75	
ATOM	12730	CG	ARG			8.355 7.035	78.003	105.601 105.174	1.00 19.48 1.00 21.64	
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12733 12738 12738 12738 12739 12745 12746 12749 12751 127560 127760 127761 127773 127778 127778 127778 127778 127781 127781 127799 12800 12801 12814 12828 12828 12828 12828 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 12838 1	NE ZH1 P P P P P P P P P P P P P P P P P P P	O D D D D D D D D D D D D D D D D D D D	318 318 318 318 318 319 319 319 319 319 319 319 319	10.545 10.311 10.221 9.817 9.892 10.0654 10.784 11.774 11.861 10.978 19.993 8.709 7.737 8.672 7.494 7.158 6.001 5.298 9.903 8.709 7.507 7.507 8.603 7.507 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 7.553 8.079 8.079 7.553 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.079 8.	77.083 77.042 77.0561 77.561 77.561 77.599 77.4089 77.4289 75.314 74.167 73.866 71.72.434 76.724 75.806 71.72.434 76.724 75.879 78.620 78.737 78.679 78.737 79.192 78.820 81.737 79.192 78.820 81.737 79.192 78.820 83.736 81.329 81.329 81.329 81.329 81.329 81.329 81.329 81.329 81.329 81.329 81.329 81.329 81.329 81.329 82.636	101.415 108.039 108.475 108.429 109.364 108.919 107.673 106.866 105.512 105.185 106.116 103.915 110.810 111.699 111.018 112.320 112.176 113.519 114.439 115.671 116.006 117.233 115.115 113.884 113.041 114.244 115.523 116.523 116.718 117.120 116.276 117.103 116.364 117.422 117.149 118.016 118.042	1.00 23.82 1.00 26.12 1.00 29.28 1.00 30.16 1.00 18.09 1.00 18.09 1.00 17.86 1.00 17.86 1.00 19.65 1.00 23.75 1.00 26.57 1.00 27.80 1.00 29.91 1.00 17.72 1.00 17.32 1.00 17.56 1.00 17.57 1.00 18.20 1.00 17.57 1.00 15.63 1.00 17.57 1.00 17.57 1.00 17.31 1.00 17.19 1.00 17.31 1.00 17.31 1.00 17.45 1.00 17.31 1.00 17.31 1.00 17.31 1.00 17.31 1.00 17.31 1.00 17.45 1.00 17.31 1.00 17.31 1.00 17.31 1.00 17.45 1.00 19.44 1.00 19.44 1.00 19.44 1.00 19.69 1.00 23.22 1.00 27.15
ATOM ATOM ATOM	12823 12824 12826	O H	IS D LU D	322 323	7.558 6.177	81.530 79.993	119.809 118.917	1.00 19.70 1.00 19.44
MOTA	12831	CB G: CG G: CD G:	FO D FO D FO D	323 323 323	4.369 3.844 2.563	78.785 77.968 77.236	119.928 121.091	1.00 19.69 1.00 23.22 1.00 27.15
ATOM ATOM ATOM	12836 12837 12838	OE2 G		323 323	2.139 1.996 6.752	76.598 78.637	119.548 121.673 120.882	1.00 27.89 1.00 30.38 1.00 18.75
ATOM ATOM ATOM	12839 12841 12843	N TI	HR D HR D HR D	324 324 324	6.805 7.590 8.732 8.750	77.956 77.183	122.096 120.106 120.635 119.996	1.00 18.35 1.00 18.60 1.00 17.91 1.00 17.80
MOTA	12845	OG1 TI	HR D	324	8.911		118.574	1.00 17.11

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	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12847 12851 12852 12853 12855 12857 12860 12863 12864 12865 12866 12877 12878 12877 12878 12877 12878 12882 12884 12884 12895 12895 12903 12903 12903 12913 12918 12919	CONCACBCCONCACBCCCONCACBCCCCCCCCCCCCCCCC	CYS I CYS I ILE I ILE I ILE I ILE I ILE I ILE THR THR THR THR THR PHE PHE PHE	324 325 325 325 325 325 325 325 325	7.400 10.097 11.111 10.090 11.300 12.027 11.079 11.738 12.984 10.994 12.240 13.469 11.647 12.401 12.150 12.649 12.649 12.654 10.944 13.034 12.900 14.136 14.286 15.587 14.025 12.763 13.614 11.699 11.520 10.077 9.910 9.811 11.915 11.235 13.025 13.433 14.947 15.599 16.548	75.115 12 77.870 12 77.479 12 78.914 11 79.501 11 80.386 11 81.131 12 82.251 12 82.272 12 83.139 12 76.410 12 75.051 17 76.410 12 75.051 17 76.410 17 75.613 17 76.665 17 76.665 17 77.628 17 76.136 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628 17 77.628	20.380 20.948 19.555 18.966 19.981 20.904 21.674 21.804 22.121 18.319 18.335 17.720 17.007 17.624 19.344 15.519 15.519 14.742 13.323 12.465 11.136 13.483 112.382 112.382 112.382 112.382 112.382 112.382 112.382 112.382 112.382 112.382 112.382 113.612 1109.689 1109.689 1109.689 1109.248 1109.248 1109.248 1109.248	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	7.80 17.48 17.57 17.83 17.92 18.28 19.69 20.99 21.59 18.16 18.28 17.92 18.99 17.34 17.70 17.70 17.70 17.70 17.92 17.92 17.92 17.92 17.93 17.93 17.93 17.93 17.94 17.95 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 16.33 16.35 16.35 16.35 16.36		$\alpha$
							75.888 1	14.742	1.00	17.75	•	
							75.613 1	13.323	1.00	17.34		С
									1.00	17.02		С
				ILE	D 327							C
		12887										C
												C
							73.675 1	12.392	1.00	16.97		
				THR	D 328							C
	MOTA			THR	D 328							
												č
												С
							72.336 1	109.689	1.00	16.34		
		12911	N	PHE	D 329	13.025						N
												<u></u>
												Č
												С
	ATOM	12921	CE1	PHE	D 329	17.153	73.366	110.407		17.18		CCC
	ATOM	12923	CZ	PHE	D 329	16.793				16.19		C
	ATOM	12925			D 329	15.846				16.57 17.38		C
	ATOM	12927			D 329 D 329	15.250 12.855				16.91		Č
	MOTA MOTA	12929 12930		PHE	D 329	12.749				16.26		0
	ATOM	12931		LEU	D 330	12.446	68.891	107.758	1.00	17.66		N
	MOTA	12933	CA		D 330	11.826				18.92		C
	ATOM	12935			D 330	12.834				18.97 19.75		C
	MOTA		G CG		D 330 D 330	14.223 14.981		107.022		21.17	•	С
	MOTA MOTA				D 330	14.125		105.588		21.19		С
	MOTA			LEU	D 330	10.506	67.396	108.233		19.73		C
	ATOM	12949	9 0	LEU	D 330	9.634		108.180		19.79		O N
	ATOM				D 331	10.335 9.118		108.905 109.669		21.46 22.37		C
	ATOM ATOM				D 331 D 331	8.794		109.636		22.37		С
	ATOM				D 331	7.361	64.127	110.081	1.00	22.45		С
	ATOM			LYS	D 331	7.120	62.615	110.109	1.00	23.00		C
	ATOM	1296	3 CE		D 331	5.75		110.728		23.00		C
	ATOM				D 331	5.570		110.919 111.106		20.66		N C
	ATOM				D 331 D 331	9.300 8.590		111.550		23.16		ŏ
_	ATOM	1 1297	1 0	פות	. J JJI	0.55						

ATOM	12972	N	ASD	ח	332		10.292	CE 045	111 505	_					
ATOM	12974	CA			332		10.292	65.945	111.797	1.00	24.04				Ň
ATOM	12976	CB			332	•		66.028	113.263		24.26				С
ATOM	12979	CG			332		10.373	64.604	113.875		24.72				C
ATOM	12980		ASP				9.113	63.836	113.527		26.74				· C
ATOM	·12981	ODI	ASP	ט	332	•	8.089	63.993	114.237		30.75	•		:	0
ATOM	12982						9.063	63.013	112.588	1.00	29.44				Ō
ATOM	12983	C			332		11.735	66.653	113.749	1.00	23.27				Č
ATOM	12983	0			332		11.973	66.685	114.952	1.00	23.21	•			Ö
ATOM	12986	N			333		12.612	67.078	112.842	1.00	22.47				N
ATOM		CA			333		13.938	67.558	113.247	1.00	21.94				C
ATOM	12988	CB			333		14.982	67.321	112.140	1.00	21.90				C
	12991	CG			333	•	15.239	65.857	111.836	1.00	21.19			•	Č
ATOM ATOM	12992		PHE				15.286	65.397	110.526	1.00	22.30				Č
	12994		PHE				15.531	64.027	110.248	1.00	21.21				Č
MOTA	12996	CZ	PHE	D	333		15.736	63.149	111.279		20.04				·Č
ATOM	12998		PHE				15.705	63.600	112.586		20.23				Č
ATOM	13000		PHE				15.456	64.941	112.860		21.17				c
ATOM	13002	C			333		13.851	69.032	113.657		21.78		•		č
MOTA	13003	0			333		13.855	69.928	112.817	1.00	21.60		•		ŏ
ATOM	13004	N			334		13.746	69.264	114.966	1.00	21.52	-			N
ATOM	13006	CA			334		13.354	70.566	115.523		21.15			•	Ĉ
ATOM	13008	CB			334		12.076	70.373	116.346	1.00	21.06				č
ATOM	13010		THR				11.013	70.024	115.458		22.39				ŏ
MOTA	13012	CG2			334		11.601	71.667	117.000		20.50				č
ATOM	13016	C			334		14.473	71.119	116.391		20.64				č
ATOM	13017	0	THR	D	334		14.993	70.410	117.256		21.61				ŏ
ATOM	13018	N			335		14.821		116.174	1.00	19.47			•	N
ATOM	13020	CA	TYR	D	335		16.045	72.956	116.709		18.85				Ċ
ATOM	13022	CB			335		17.151	72.911	115.633		18.58				C
MOTA	13025	CG			335		17.442	71.498	115.222	1.00	19.49				Č
ATOM	13026	CD1			335		17.247	71.067	113.926	1.00	18.92				Ċ
ATOM	13028	CE1			335		17.492	69.744	113.583	1.00	20.64				č
ATOM	13030	CZ			335		17.918	68.850	114.547		18.93				č
ATOM	13031	OH			335		18.156	67.535	114.226		22.78				o.
ATOM	13033	CE2					18.106	69.255	115.831		19.01				Č
ATOM	13035	CD2					17.863	70.559	116.173		20.56				Č
ATOM	13037	C	TYR		335		15.864	74.383	117.184	1.00	17.90				Ċ
ATOM ATOM	13038	0			335	•	15.299	75.200	116.469		17.11				ō
ATOM	13039	N			336		16.361	74.656	118.388	1.00	17.04				N
ATOM	13041	CA	SER		336		16.422	76.008	118.966		16.74		•	•	Ĉ
ATOM	13043 13046	CB			336		16.370	75.896	120.488	1.00	16.83				Ċ
ATOM	13048	OG			336		17.539		120.966	1.00	15.76				Ō
ATOM	13048	C	SER	ח	336		17.738	76.715	118.596	1.00	16.17				Č
ATOM	13049	0	SER				18.640		118.069	1.00	14.89				0
ATOM	13052	N	LYS				17.841	78.005	118.892	1.00	16.72				N
ATOM	13054	CA CB	LYS	ח	33/		19.128	78.708	118.826	1.00	17.06				C.
ATOM	13057		LYS	מ	331		19.050	80.027	119.578	1.00	16.51				С
ATOM	13060	CG CD	LYS				18.776	81.191	118.672	1.00	15.93				C
MOTA	13063	CE	LYS				18.930	82.497	119.394		14.66				С
ATOM	13065	NZ	LYS				18.332	83.573	118.544		15.20				C
ATOM	13070		LYS				18.517	84.917	119.049	1.00	10.93				N
MOTA	13070	C	LYS				20.270	//.875	119.438	1.00	17.88				C
ATOM	13071	O M	LYS	٦ ٦	33/		21.382	77.794	118.903	1.00	17.72				Ō
ATOM	13072	N	ASP	ח	338		19.980	77.245	120.567	1.00	18.12				N
ATOM	13074	CA CB	ASP	ח	338 330	•	21.020	76.548	121.270	1.00	18.82				C
MOTA	13076	CG	ASP	ח	338 330		20.553	/6.052	122.634	1.00	19.01				C
ATOM	13079		ASP	ת ת	338		21.628	/6.157	123.630		20.94				C
ATOM	13081	ODS	ASP	ر 1	338		22.111	75.106	124.095		22.65				Ō
ATOM	13081	C	ASP				22.092	77.274	123.956		24.02				Ō
ATOM	13082	0	ASP				21.599	/5.405	120.463	1.00	18.23				C
		•	ASP	ט	228		22.796	15.212	120.476	1.00	18.26				·O

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ATOM	13084	N .	ASP I	D 3	339	20.757		119.756	1.00			N
ATOM	13086	CA	ASP I	D 3	339	21.239		118.897	1.00	17.64		С
MOTA	13088	CB	ASP	D :	339	20.076		118.327	1.00			С
MOTA	13091	CG	ASP 1	D :	339	19.237		119.390	1.00			С
MOTA	13092		ASP !		339.	19.816		120.345	1.00			0
MOTA	13093	OD2	ASP	D :	339	17.994		119.379	1.00			0
ATOM	13094	С	ASP	D :	339	22.117		117.758	1.00			С
ATOM	13095	0	ASP	D :	339	23.059		117.360	1.00			0
MOTA	13096	N	PHE	D :	340	21.819		117.222	1.00			N
MOTA	13098	CA	PHE	D	340	22.664		116.153	1.00		•	С
MOTA	13100	CB	PHE	D	340	21.995		115.419		15.86		С
ATOM	13103	CG			340	20.819		114.618		15.58		C
ATOM.	13104	CD1	PHE	D	340	19.536		115.103		14.28		С
ATOM	13106	CE1	PHE	D	340	18.447		114.357		13.86		С
MOTA	13108	CZ	PHE	D	340	18.628		113.142		13.49		C
ATOM	13110	CE2	PHE	D	340	19.894		112.650		14.38		C
MOTA	13112	CD2	PHE		340	20.992		113.389		15.91		C
MOTA	13114	С	PHE	D	340	24.045		116.658		16.12		C
ATOM	13115	0	PHE			25.034		115.995		16.50		0
MOTA	13116	N	HIS	D	341	24.111		117.834		16.63		Ŋ
MOTA	13118	CA	HIS		341	25.386		118.384		16.82		C.
MOTA	13120	CB	HIS		341	25.219		119.599		17.15		C
MOTA	13123	CG	HIS		341	26.480		119.946		19.44		С
MOTA	13124		HIS			27.128		119.047		21.11		N
MOTA	13126		$\mathtt{HIS}$			28.218	80.105	119.611		22.20		C
MOTA	13128		HIS		341	28.307		120.839		21.65		N
MOTA	13130		HIS			27.240		121.068		21.17		C
MOTA	13132	С	HIS			26.231		118.753		16.10		C
MOTA	13133	0	HIS			27.440		118.597		15.56		0
MOTA	13134	N	ARG			25.571		119.205		15.87		N
ATOM	13136	CA	ARG			26.224		119.568		16.07		C
MOTA	13138	CB	ARG			25.207		120.229		16.05		C
MOTA	13141	CG	ARG			24.788		121.623	1.00	17.32		C
MOTA	13144	CD	ARG			24.621		122.539		21.25		N
ATOM	13147	NE	ARG			23.364		123.275		23.52		C
MOTA	13149	CZ			342	23.038		124.098 124.275		25.50 24.03		N
ATOM	13150	NH1				23.869		124.275		26.29		N
ATOM	13153	NH2				21.877 26.868		118.378		15.73		Ĉ
ATOM	13156	C			342	27.777		118.571		15.89		ŏ
ATOM	13157	0			342 343	26.367		3 117.170		15.13		N
MOTA	13158	N			343	26.960		115.929		15.14		Ċ
MOTA	13160 13162	CA CB	ALA			25.902		114.834		15.08		č
MOTA	13162	C			343	28.113		115.449		14.86		Č
ATOM		Ö			343	28.660		114.386		14.33		0
ATOM		N			344	28.441		116.214		15.18		N
ATOM ATOM		CA			344	29.626		115.959		15.39		C
ATOM		CA			344	29.379		115.109		15.41		C
MOTA		ŏ			344	30.318		114.767		15.98		0
ATOM					345	28.127		114.763		15.74		N
ATOM					345	27.800		2 113.955		16.56		С
ATOM					345	26.405	77.83	3 113.337		16.66		С
ATOM					345	26.208		7 112.502		17.17		С
ATOM			LEU			24.875		7 111.832		17.49		С
ATOM			LEU			27.314		7 111.457		19.65		С
MOTA					345	27.912		7 114.784		16.89		С
ATOM					345	27.621		8 115.996		17.01		0
ATOM					346	28.342		7 114.116		17.06		N
ATOM					346	28.632		7 114.760		17.19		С
ATOM					346	29.423		2 113.814		17.60		С
ATOM					346	30.644		8 113.171		18.33		С

ATOM	13204	CD	GLN D 3	346	31.568	81 261	114.198	1 00	
ATOM	13205	OE1	GLN D 3	346	32.017	81 944	114.196		20.92
ATOM	13206	NE2			31.856	70 063	3 114.050	1.00	21.20
ATOM	13209	C	GLN D 3		27.338	92 205	115.154	1.00	23.47
ATOM	13210	0	GLN D 3		26.332	02.297	110.104		17.01
ATOM	13211	N	VAL D 3		27.374	02.13/	114.474	1.00	
ATOM	13213	CA	VAL D 3		26.223	03.062	116.248	1.00	
MOTA	13215	CB	VAL D 3		26.372	03.002	116.681	. 1.00	17.24
ATOM	13217	CG1			25.872	04.370	118.164	1.00	
MOTA	13221	CG2			25.592	03.805	118.358	1.00	17.35
ATOM	13225	C	VAL D 3		25.925	03.430	119.085	1.00	18.18
ATOM	13226	ŏ	VAL D 3		24.769	04.985	115.680	1.00	16.88
ATOM	13227	N	GLU D 3			85.279	115.414	1.00	16.62
MOTA	13229	CA	GLU D 3		26.776	05,555	115.073	1.00	17.02
ATOM	13231	СВ	GLU D 3		28.140	06.529	113.980	1.00	17.07
ATOM	13234	CG	GLU D 3		28.975	86.949	113.415	1.00	17.09
ATOM	13237	CD	GLU D 3		29.917	87.801	114.359		16.95
ATOM	13238	OE1		48	29.938	07.001	115.260		17.25
ATOM	13239	OE2		48	30.637	00./03	115.213		15.66
ATOM	13240	C	GLU D 3		25.890	07.042	116.048	1.00	17.91.
ATOM	13241	Ō	GLU D 3		25.370	06.012	112.820	1.00	17.19
ATOM	13242	N	PHE D 3		25.754	00.800	.112.015		17.00
ATOM	13244	CA	PHE D 3		24.993		112.733	1.00	17.57
ATOM	13246	CB	PHE D 3		25.837	03.991	111.690	1.00	17.56
ATOM	13249	CG	PHE D 3		25.294	02.795	111.226	1.00	18.32
ATOM	13250		PHE D 3		24.759	02.031	110.029		22.06
ATOM	13252		PHE D 3		24.739	02.079	108.924		24.50
MOTA	13254	CZ	PHE D 3		24.425	01.930	107.818	1.00	24.67
ATOM	13256	CE2			24.965	70.5/4	107.808	1.00	25.29
ATOM	13258	CD2			25.409	13.311	108.899 109.989	1.00	25.21
MOTA	13260	С	PHE D 3		23.657	00.032	112.268	1.00	24.56
MOTA	13261	Ō	PHE D 34		22.601	03.339	112.268	1.00	16.59
ATOM	13262	N	ILE D 3	50	23.667	02.003	111.625		17.28
ATOM	13264	CA	ILE D 3	50	22.426	82 522	114.080	1.00	14.79
ATOM	13266	CB	ILE D 35		22.703	21 600	115.349	1.00	13.52
MOTA	13268	CG1			23.477	80 427	115.349		13.14
ATOM	13271	CD1			24.246	79 916	116.203	1.00	12.85
MOTA	13275	CG2			21.415	81 277	116.203	1.00	12.77
MOTA	13279	C	ILE D 35		21.430	83. 662	114.365	1.00	11.63
ATOM	13280	0	ILE D 35		20.234	83 535	114.069		13.33
AŢOM	13281	N	ASN D 35		21.905	84.757	114.959		12.57 12.77
ATOM	13283	CA	ASN D 35		20.970	85.791	115.419		12.77
MOTA	13285	CB	ASN D 35	51	21.639	86.826	116.351	1.00	11.66
ATOM	13288	CG	ASN D 35		21.914	86.250	117.738		11.41
ATOM	13289	OD1	ASN D 35	51	21.364	85.223	118.101		11.58
ATOM	13290	ND2	ASN D 35	51	22.777	86.898	118.506	1 00	10.28
ATOM	13293	С	ASN D 35		20.175	86.415		1 00	12.17
ATOM	13294	0	ASN D 35		18.971	86.361	114.321		12.17
ATOM	13295	N	PRO D 35		20.811	86.935	113.223	1.00	12.13
MOTA	13296.	CA	PRO D 35	52	20.048		112.090		12.89
MOTA	13298	CB	PRO D 35		21.149	87.956	111.116		12.57
ATOM	13301	CG	PRO D 35		22.367	88.225	112.029		12.50
ATOM	13304	CD	PRO D 35				113.004		12.68
ATOM	13307	С	PRO D 35	52	19.036	86.580	111.399		13.07
ATOM	13308	0	PRO D 35	52	18.056	87.078	110.891		13.51
ATOM	13309	N	ILE D 35		19.271	85.273	111.360		14.77
ATOM	13311	CA	ILE D 35	3	18.375	84.337	110.666		15.44
MOTA	13313	CB	ILE D 35	3	19.061	83.008	110.399	1.00	15.39
ATOM	13315	CG1	ILE D.35	53	20.047		109.239	1.00	17.58
ATOM	13318	CD1	ILE D 35	3	20.850	81.852	108.991	1.00	
ATOM	13322	CG2	ILE D 35	53	18.073		110.012	1.00	16.28
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	ATOM	13326	С	ILE	D	353	17.139	84.120 111.511	1.00 16.28	С
	ATOM	13327	Ö	ILE			16.029	84.022 110.985	1.00 16.20	Ö
	ATOM	13328	N	PHE			17.338	84.049 112.824	1.00 16.70	
	ATOM	13330	CA	PHE			16.226	83.954 113.731		N
									1.00 16.18	· C
	MOTA	13332	CB	PHE			16.669	83.566 115.167	1.00 16.26	, <b>C</b>
	ATOM	13335	CG	PHE			16.669	82.083 115.390	1.00 14.24	· C
	MOTA	13336		PHE			17.727	81.308 114.940	1.00 13.74	С
	ATOM	13338		PHE			17.726	79.933 115.104	1.00 14.59	С
	MOTA	13340	CZ	PHE			16.637	79.313 115.725	1.00 15.36	C
	ATOM	13342		PHE			15.558	80.077 116.155	1.00 13.49	· C
	MOTA	13344	CD2	PHE			15.575	81.459 115.969	1.00 14.41	С
	MOTA	13346	С	PHE			15.374	85.207 113.695	1.00 16.36	C
	MOTA	13347	0			354	14.169	85.085 113.682	1.00 16.51	. 0
	ATOM	13348	N	GLU			15.947	86.398 113.631	1.00 17.38	N
	MOTA	13350	CA	GLU	D	355	15.079	87.570 113.629	1.00 18.65	С
	ATOM	13352	CB	GLU	D	355	15.769	88.844 114.123	1.00 20.16	С
	MOTA	13355	CG	GLU	D	355	16.542	89.686 113.143	1.00 23.24	С
	MOTA	13358	CD	GLU	D	355	17.096	90.915 113.836	1.00 27.30	. Č
	ATOM	13359	OE1	GLU			18.059	90.773 114.611	1.00 32.29	. 0
	ATOM	13360		GLU		355	16.566	92.016 113.640	1.00 31.79	ŏ
	MOTA	13361	Č			355	14.411	87.773 112.301	1.00 18.02	. Č
	ATOM	13362	ŏ			355	13.314	88.305 112.252	1.00 17.33	Ö
	ATOM	13363	Ŋ	PHE		356	15.048	87.310 111.224	1.00 17.33	N
	ATOM	13365	CA			356	14.381	87.291 109.929	1.00 13.12	C
	ATOM	13367	CB			356	15.316	86.833 108.843	1.00 17.34	C
	ATOM	13370	CG			356	14.651	86.667 107.510	1.00 18.10	c
	ATOM	13371		PHE			14.415	87.763 106.699	1.00 19.20	C
	ATOM	13371		PHE			13.804	87.595 105.438		C
	MOTA	13375	CZ			356	13.439	86.342 105.003	1.00 19.22 1.00 17.86	
	ATOM	13373		PHE						CCC
							13.683	85.238 105.803	1.00 20.18	C
	MOTA	13379		PHE			14.280	85.399 107.055	1.00 19.82	C
	ATOM	13381	C			356	13.177	86.371 110.011	1.00 17.21	C
	MOTA	13382	0			356	12.080	86.744 109.577	1.00 16.56	0
	MOTA	13383	N			357	13.374	85.197 110.614	1.00 16.08	N
	ATOM	13385	CA			357	12.318	84.231 110.733	1.00 16.00	С
	MOTA	13387	CB			357	12.863	82.921 111.322	1.00 16.71	С
	ATOM	13390	OG			357	13.823	82.288 110.449	1.00 14.50	0
	MOTA	13392	C			357	11.159	84.782 111.564	1.00 16.84	С
	ATOM	13393	0			357	9.994	84.544 111.260	1.00 16.43	0
	MOTA	13394	N			358	11.473	85.568 112.596	1.00 16.89	N
	MOTA	13396	CA			358	10.436	86.112 113.474	1.00 16.31	С
	MOTA	13398	CB			358	11.060	86.830 114.662	1.00 16.33	С
	MOTA	13401	CG	ARG			11.152	86.056 115.934	1.00 17.48	C
	ATOM	13404	CD	ARG	D	358	11.729	86.912 117.052	1.00 20.26	С
	MOTA	13407	NE			358	13.018	86.354 117.301	1.00 25.96	N
	ATOM	13409	CZ			358	14.194	86.947 117.218	1.00 22.65	С
	ATOM	13410		ARG			14.354	88.238 116.956	1.00 19.07	· <b>N</b>
	ATOM	13413	NH2	ARG			15.242	86.175 117.439	1.00 22.42	N
	MOTA	13416	С			358	9.598	87.118 112.705	1.00 16.20	·C
	MOTA	13417	0			358	8.374	87.170 112.844	1.00 15.37	0
	MOTA	13418	N	ALA	D	359	10.269	87.947 111.920	1.00 16.45	N
	MOTA	13420	CA	ALA	. D	359	9.580	88.987 111.148	1.00 17.28	С
	MOTA	13422	CB			359	10.582	89.941 110.512	1.00 17.05	C
	MOTA	13426	С			359	8.690	88.361 110.087	1.00 17.53	C
	MOTA	13427	0	ALA	D	359	7.560	88.798 109.876		0
	ATOM	13428	N			360	9.199	87.316 109.449		N
	MOTA	13430	CA			360	8.457	86.585 108.422		С
	MOTA	13432	CB			360	9.323	85.473 107.835		Ċ
	ATOM	13435	CG			360	10.382	85.957 106.843		C
	ATOM	13438	SD			360	9.743	86.806 105.396		S
	ATOM	13439	CE			360	8.502	85.627 104.774		č
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ATOM	13443	С	MET	D 360		7.170	86.016	100 000	1 00 00
ATOM	13444	0	MET	D 360	•	6.100	86.129	109.002	1.00 20.13 1.00 18.70
ATOM	13445	. N	ARG	D 361		7.290	85.447	110.201	1.00 18.70
ATOM ATOM	13447	CA	ARG			6.174	84.834		1.00 23.42
ATOM	13449 13452	CB	ARG		•	6.665	84.197	112.191	1.00 24.79
ATOM	13455	CG CD	ARG ARG			5.692	83.203		1.00 28.89
ATOM	13458	NE	ARG			5.643	81.963		1.00 34.68
ATOM	13460	CZ	ARG			4.583 4.120	81.042		1.00 38.61
ATOM	13461		ARG		•	4.604	80.118 80.026		1.00 42.14
MOTA	13464	NH2		D 361		3.158		111.888	1.00 42.41 1.00 43.94
ATOM	13467	C	ARG			5.104	85.821		1.00 43.94
ATOM ATOM	13468	0	ARG			3.925	85.477	111.342	1.00 24.04
ATOM	13469 13471	N CA	ARG ARG			5.513	87.049	111.563	1.00 23.68
ATOM	13473	CB		D 362 D 362		4.559	88.113		1.00 24.21
ATOM	13476	CG		D 362		5.279 5.563	89.325 89.158		1.00 24.12
ATOM	13479	CD	ARG			6.124	90.408		1.00 25.37
ATOM	13482	NE	ARG	D 362		7.586	90.354		1.00 26.49 1.00 30.15
ATOM	13484	CZ	ARG			8.404		114.060	1.00 31.30
ATOM ATOM	. 13485		ARG			7.928	92.133	113.290	1.00 35.68
ATOM	13488 13491	NH2 C	ARG	D 362 D 362		9.710	90.997		1.00 29.73
ATOM	13491	Ö	ARG			3.746 2.708	88.544	110.672	1.00 24.10
ATOM	13493	N		D 363		4.223	89.182 88.234	110.819	1.00 24.95
MOTA	13495	CA	LEU	D 363	,	3.463	88.535	109.473 108.258	1.00 24.23
MOTA	13497	CB	LEU	D 363		4.364	88.621	107.041	1.00 24.15 1.00 24.08
ATOM	13500	CG		D 363		5.141	89.911	106.879	1.00 24.30
ATOM ATOM	13502 13506		LEU			6.031	89.758	105.676	1.00 25.29
ATOM	13510	CD2 C		D 363 D 363		4.207	91.108	106.715	1.00 24.59
ATOM	13511	Õ	LEU			2.373 1.339	87.517	107.999	1.00 23.86
ATOM	13512	N		D 364		2.617	87.850 86.281	107.438 108.413	1.00 23.41
ATOM	13514	CA	GLY			1.635		108.287	1.00 24.24 1.00 24.01
ATOM	13517	С	GLY			1.352		106.846	1.00 23.85
ATOM ATOM	13518	0 .		D 364		0.206	84.788	106.464	1.00 24.01
ATOM	13519 13521	N CA	LEU			2.392	84.664	106.046	1.00 24.07
ATOM	13523	CB	LEU	D 365 D 365		2.221	84.279		1.00 24.58
ATOM	13526	CG		D 365		3.551 4.442	84.294	103.909 103.945	1.00 24.35
MOTA	13528	CD1		D 365		5.344		103.945	1.00 25.06
ATOM	13532	CD2	LEU	D 365		3.626		104.042	1.00 25.33 1.00 26.01
ATOM ATOM	13536	C		D 365		1.638	82.874	104.514	1.00 24.93
ATOM	13537 13538	O N		D 365		2.138	81.940	105.150	1.00 25.34
ATOM	13540	N CA	ASP	D 366 D 366		0.607	82.718	103.681	1.00 25.11
ATOM	13542	CB	ASP	D 366		0.110 -1.384	81.372	103.345	1.00 25.42
MOTA	13545	CG		D 366		-1.745	82 380	102.926 101.854	1.00 24.99
ATOM	13546	OD1	ASP 1	D 366		-0.865	82.799	101.070	1.00 25.12 1.00 24.72
ATOM	13547			D 366		-2.922	82.802	101.710	1.00 24.72
ATOM ATOM	13548	C	ASP I	D 366		1.046	80.691	102.330	1.00 25.60
ATOM .	13549 13550	O N	ASP I	D 366		2.121	81.211	102.031	1.00 25.84
ATOM	13552			D 367 D 367		0.670	79.517	101.838	1.00 25.74
ATOM	13554			D 367		1.551 0.983	77 262	100.945	1.00 25.71
MOTA	13557	ĊĠ	ASP I	D 367		0.888	76.510	100.678 101.927	1.00 25.96
ATOM	13558	OD1	ASP I	D 367		1.788	76.575	101.927	1.00 25.99 1.00 25.17
ATOM	13559	OD2	ASP I	367 .		-0.069	75.733	102.787	1.00 25.17
ATOM ATOM	13560 13561			367	•	1.730	79.477	99.605	1.00 25.15
ATOM	13561	O N	ASP I	367		2.827	79.503	99.038	1.00 25.46
		44	WINW I	368		0.641	80.040	99.099	1.00 24.22
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ATOM	13564	CA .	ALA I	n	368	0.673	80.766	97.833	1.00 23.64	С
	13566		ALA			-0.708	81.318	97.506	1.00 23.61	Ċ
ATOM	13570		ALA			1.681	81.902	97.872	1.00 23.10	č
ATOM			ALA			2.428	82.111	96.905	1.00 23.25	. 0
ATOM	13571		GLU			1.691	82.629	98.990	1.00 22.03	N
MOTA	13572					2.511	83.816	99.117	1.00 21.31	· c
MOTA	13574		GLU					100.365	1.00 21.31	č
MOTA	13576		GLU			2.104		100.303	1.00 20.90	č
MOTA	13579		GLU			0.813				c
MOTA	13582		GLU			0.153		101.321	1.00 19.79	o.
MOTA	13583		GLU			-0.415		101.153	1.00 17.89	
MOTA	13584		GLU			0.144		102.423	1.00 17.91	0
MOTA	13585	С	GLU	D	369	3.975	83.418	99.081	1.00 20.93	C
MOTA	13586	0	GLU			4.744	84.004	98.322	1.00 20.49	0
MOTA	13587	$\cdot N$	TYR	D	370	4.345	82.395		1.00 20.98	N
MOTA	13589	CA	TYR	D	370	5.727			1.00 21.12	C
MOTA	13591	CB	TYR	D	370	5.896		100.896	1.00 21.08	С
ATOM	13594	CG	TYR	D	370	6.216		102.311	1.00 21.99	С
ATOM	13595	CD1	TYR			5.260	81.100	103.337	1.00 23.12	С
ATOM	13597	CE1	TYR			5.558		104.663	1.00 21.94	· C
ATOM	13599	CZ	TYR			6.810		104.957	1.00 23.03	С
MOTA	13600	ОН			370	7.112	82.479	106.263	1.00 25.50	0
ATOM	13602	CE2			370	7.774	82.153	103.950	1.00 21.94	С
ATOM	13604	CD2	TYR			7.475		102.636	1.00 23.21	С
ATOM	13604	C			370	6.166			1.00 21.05	C
	13607	Ö			370	7.297			1.00 21.37	0
ATOM	13607	Ŋ			371	5.251			1.00 21.17	N
MOTA	13610	CA			371	5.563			1.00 20.62	С
ATOM					371	4.501			1.00 20.58	Ċ
ATOM	13612	CB				5.752			1.00 20.48	Č
ATOM	13616	C			371	6.556			1.00 20.45	ŏ
MOTA	13617	0			371	5.015			1.00 20.23	N
MOTA	13618	N			372				1.00 20.23	C
MOTA	13620	CA			372				1.00 19.96	č
MOTA	13622	СВ			372	3.827			1.00 20.08	č
MOTA	13625	CG			372	2.626			1.00 20.00	
MOTA	13627		LEU			1.315			1.00 20.63	Č
MOTA	13631		LEU			2.80				č
MOTA	13635	C			372	6.31			1.00 20.05 1.00 20.44	ŏ
ATOM	13636	0			372	6.963				N
MOTA	13637	N			373	6.629			1.00 19.51	C
MOTA	13639	CA			373	7.800			1.00 19.22	C
MOTA	13641	CB			373	7.87			1.00 19.24	C
MOTA	13644	CG			373	8.02				C
MOTA	13646				373	8.08		100.355		c
MOTA	13650	CD2			373	9.26			1.00 20.42	
MOTA	13654	С			373	9.03				C
ATOM	13655	0			373	9.92				0
MOTA	13656	N	ILE	D	374	9.10				И
MOTA	13658	CA			374	10.22				C
MOTA	13660				374	9.99				C
MOTA					374	10.24				C
MOTA	13665				374	9.59				C
ATOM	13669	CG2	: ILE	; E	374	10.94				C
ATOM					374	10.41				C
MOTA			ILE	: [	374	11.53				0
MOTA					375	9.31				N
MOTA					375	9.39	3 82.87			С
MOTA					375	8.02	8 82.67	2 91.468		С
MOTA					375	9.97		6 91.803		С
ATOM					375	10.88	0 84.38	5 90.918		. 0
ATOM					376	9.49	8 85.28	1 92.544		N
ATOM					376	10.03			1.00 16.40	С

ATOM	13689	СВ	ILE	C D	376	9.248	87.627	93.324	1 00 16 11			•
ATOM	13691	CG1			376	7.825	87.803	92.781	1.00 16.11 1.00 16.30			. C .
ATOM	13694	CD1				6.843	88.452	93.715	1.00 16.19			C
ATOM .		CG2			376	9.955	89.010	93.470	1.00 15.48			C
ATOM ATOM	13702 · 13703	C	177	5 D	376	11.538	86.666	92.678	1.00 17.41			· C.
ATOM	13703	O N	TTE	; D	376 377	12.324	87.309	91.972	1.00 16.20			Ö
ATOM	13704	CA			377	11.923	85.948	93.738	1.00 19.09			N
ATOM	13708	CB			377	13.297 13.382	85.930	94.250	1.00 20.66			С
ATOM	13711	CG			377	14.758	85.211 85.331	95.609	1.00 21.50			C.
ATOM	13712		ASN	D	377	15.659	84.486	96.231 96.019	1.00 22.32 1.00 24.66		•	Ç
ATOM	13713	ND2	ASN	D	377	14.940	86.428	96.962	1.00 24.66			0
ATOM	13716	С			377	14.264	85.247	93.303	1.00 21.20			N C
ATOM	13717	0			377	15.445	85.658	93.169	1.00 22.09	٠		Ö
ATOM ATOM	13718	N	ILE			13.731	84.242	92.605	1.00 22.45		•	N
ATOM	13720 13722	CA CB	1115	שיי	378 378	14.450	83.547	91.538	1.00 22.55			C
ATOM	13724		TILE	ם י	378	13.658	82.292	91.021	1.00 22.50		٠.	· C _
ATOM	13727	CD1			378	13.750 12.946	81.164	92.056	1.00 22.30			С
ATOM	13731				378	14.210	79.921 81.777	91.696 89.682	1.00 22.32			С
ATOM	13735	С			378	14.710	84.538	90.421	1.00 22.42 1.00 22.67			C
ATOM	13736	0			378	15.822	84.598	89.899	1.00 22.67			C
ATOM	13737	N	PHE		379	13.693	85.314	90.058	1.00 23.13			O N
ATOM	13739	CA		D	379	13.713	86.023	88.775	1.00 23.43			C
ATOM ATOM	13741 .13744	CB	PHE		379	12.330	85.940	88.102	1.00 23.42	•		č
ATOM	13744	CG CD1	PHE		379 379	11.977	84.551	87.586	1.00 23.26			č
ATOM	13747		PHE		379 379	10.824 10.481	83.888	88.017	1.00 23.13			С.
ATOM	13749	CZ	PHE		379	11.295	82.638 82.029	87.514	1.00 23.45			C
ATOM	13751		PHE	D	379	12.451	82.678	86.575 86.131	1.00 23.02 1.00 23.17			C
MOTA	13753	CD2	PHE	D	379	12.785	83.935	86.634	1.00 23.17	,		C.
ATOM	. 1.3755	C			379 -	14.228	87.464	88.929	1.00 23.64			C C
ATOM ATOM	13756	0			379	13.606	88.431	88.457	1.00 24.39			0.
ATOM	13757 13759	N CA	SER	ט	380 380	15.422	87.579	89.528	1.00 23.56			N.
ATOM	13761	CB			380	16.113 16.723	88.857	89.670	1.00 23.81		•	C.
ATOM	13764	ŌĠ	SER	D	380	15.890	88.941 88.308	91.061 92.019	1.00 24.08			С
MOTA	13766	C			380	17.217	89.047	88.623	1.00 22.99			0
ATOM	13767	0	SER	D	380	18.147	88.229	88.549	1.00 24.40 1.00 24.34			C
ATOM	13768	N	ALA		381	17.110	90.135	87.835	1.00 25.02			O N
ATOM ATOM	13770 13772	CA			381	18.046	90.400	86.731	1.00 25.63			C.
ATOM	13776	CB C	ALA		381	17.350	91.257	85.629	1.00 25.63			č
ATOM	13777	Ö	ALA AT.A		381 381	19.374	91.056	87.178	1.00 26.26			C
ATOM	13778	N	ASP	D	382	20.350 19.423	91.084 91.565	86.409	1.00 26.43			0
MOTA	13780	CA	ASP	D	382	20.661	92.158	88.413 88.963	1.00 27.15			N
ATOM	13782	CB	ASP			20.310	93.260	89.959	1.00 27.84 1.00 27.97			C
ATOM	13785	CG	ASP	D	382	20.075	92.717	91.336	1.00 27.97			C
MOTA	13786	OD1	ASP	D	382	19.208	91.823	91.476	1.00 31.55			.C O
ATOM ATOM	13787 13788		ASP			20.729	93.085	92.335	1.00 31.34			Ö
ATOM	13789	С 0	ASP ASP	D	382	21.614	91.140	89.662	1.00 27.85			·Č
ATOM	13790	Ŋ	ARG			22.545	91.529	90.450	1.00 28.22			0
ATOM	13792	CA	ARG	ם	383	21.389 22.362	89.846	89.380	1.00 27.58			N
MOTA	13794	CB	ARG	D	383	21.781	88.816 87.417	89.740 89.530	1.00 27.32			C
ATOM	13797	CG	ARG	D	383	20.517	87.169	90.283	1.00 27.18 1.00 26.76			C
ATOM	13800	CD	ARG	D	383	20.626	87.429	91.759	1.00 25.16		•	C C
MOTA	13803	NE	ARG	D	383	19.465	86.902	92.452	1.00 24.18		•	N
ATOM ATOM	13805 13806	CZ NH1	ARG	D	383	19.320	86.892	93.771	1.00 23.48			C
ATOM	13809	ИНО ИЦТ	ARG ARG	ח	383 202	20.267	87.391	94.558	1.00 23.07			N
<b></b>		11115	אווע	ט	202	18.216	86.385	94.301	1.00 22.02			·N

ATOM 13812 C ARG D 383 23.517 88.9.92 88.867 1.00 27.12 C ARGM 13813 0 ARG D 383 23.537 89.480 87.750 1.00 27.12 N ARGM 13815 CA PRO D 384 24.769 88.528 89.384 1.00 27.23 N ARGM 13815 CA PRO D 384 25.991 88.459 88.564 1.00 27.23 N ARGM 13817 CB PRO D 384 27.082 88.032 89.559 1.00 26.93 C ARGM 13823 CD PRO D 384 27.082 88.032 89.559 1.00 27.08 C ARGM 13823 CD PRO D 384 24.989 88.072 90.778 1.00 27.08 C ARGM 13823 CD PRO D 384 25.819 88.072 90.778 1.00 27.08 C ARGM 13823 CD PRO D 384 25.819 88.072 90.778 1.00 27.08 C ARGM 13823 CD PRO D 384 25.819 88.072 90.778 1.00 27.08 C ARGM 13827 O PRO D 384 25.819 88.072 90.778 1.00 27.08 C ARGM 13827 O PRO D 384 25.819 88.072 90.778 1.00 26.79 C ARGM 13827 O PRO D 384 25.819 88.072 90.778 1.00 26.78 N ARGM 13827 O PRO D 384 25.819 88.072 90.778 1.00 26.78 N ARGM 13823 CR ARSN D 385 26.387 87.641 86.298 1.00 25.76 C ARGM 13823 CR ARSN D 385 26.397 87.641 86.298 1.00 25.56 C ARGM 13835 CG ARSN D 385 26.639 85.576 86.293 1.00 25.56 C ARGM 13836 CD ARSN D 385 28.693 85.565 86.233 1.00 25.56 C ARGM 13836 CD ARSN D 385 28.693 85.565 86.233 1.00 25.56 C ARGM 13836 CD ARSN D 385 25.125 86.321 84.479 1.00 25.63 C ARGM 13841 C ARSN D 386 22.814 85.499 81.00 25.56 C ARGM 13841 C ARSN D 386 22.814 87.042 87.042 1.00 25.63 C ARGM 13848 CC ARSN D 386 22.814 86.907 83.937 1.00 25.63 C ARGM 13848 CC ARSN D 386 22.814 86.907 83.937 1.00 25.50 C ARGM 13848 CG VAL D 386 22.814 86.907 83.937 1.00 25.54 C ARTM 13856 C ARL D 386 22.814 86.907 83.937 1.00 25.54 C ARTM 13856 C ARL D 386 22.988 87.550 82.559 1.00 25.55 C ARTM 13856 C ARL D 386 21.480 87.106 86.047 1.00 25.54 C ARTM 13856 C ARL D 386 21.480 87.106 86.047 1.00 25.54 C ARTM 13866 CB ARL D 386 21.480 87.106 86.047 1.00 25.54 C ARTM 13866 CB ARL D 386 21.480 87.106 86.047 1.00 25.54 C ARTM 13866 CB ARL D 386 22.988 87.550 82.559 1.00 25.54 C ARTM 13866 CB ARL D 386 22.988 87.550 82.559 1.00 25.54 C ARTM 13869 CB GR D 386 22.988 87.550 82.559 1.00 25.54 C ARTM 13869 CB GR D 386 22.988 87.550 82.559 1.00 25.54 C ARTM 13869 CB GR D 386 22												
ATOM   13813   O   ARG   D   383   23,557   89,480   87,750   1.00   27,12   O   ATOM   13815   CA   PRO   D   384   25,991   88,558   89,384   1.00   26,991   C   ATOM   13817   CB   PRO   D   384   25,991   88,659   88,564   1.00   26,991   C   ATOM   13823   CD   PRO   D   384   26,338   87,410   90,778   1.00   27,27   C   ATOM   13823   CD   PRO   D   384   24,999   88,052   90,778   1.00   27,027   C   ATOM   13823   CD   PRO   D   384   25,181   88,032   97,484   1.00   26,78   C   ATOM   13823   CD   PRO   D   384   25,181   88,032   97,484   1.00   26,78   C   ATOM   13823   CD   PRO   D   384   25,181   88,032   97,484   1.00   26,78   C   ATOM   13823   CD   ATOM   13823   CD   ATOM   13823   CD   ATOM   13823   CA   ASN   D   385   26,444   86,666   86,294   1.00   25,76   C   ATOM   13823   CA   ASN   D   385   27,146   86,666   86,294   1.00   25,76   C   ATOM   13823   CD   ASN   D   385   27,146   86,667   86,047   1.00   25,58   C   ATOM   13823   CD   ASN   D   385   29,548   85,557   85,061   1.00   25,58   C   ATOM   13824   CD   ASN   D   385   25,125   86,321   ASN   26,544	АТОМ	13812	С	ARG D	383	23.	615	88.962	88.867	1.00	27.18	С
ATOM   13815   CA   PRO D   384   24,769   88,528   89,384   1,00   27,23   N						23.	537		87.750	1.00	27.12	0
ATOM 13815 CA PRO D 3844 27.082 88.032 88.059 1.00 26.91 C ATOM 13820 CG PRO D 3844 27.082 88.032 88.059 1.00 26.93 C ATOM 13823 CD PRO D 3844 24.999 88.072 90.778 1.00 27.27 68 C ATOM 13826 C PRO D 384 24.999 88.072 90.778 1.00 27.27 68 C ATOM 13827 O PRO D 384 25.138 86.387 87.484 1.00 26.70 C ATOM 13828 N ASN D 385 26.444 86.662 85.198 1.00 25.76 C ATOM 13832 CD PRO D 384 25.138 86.387 87.752 1.00 26.88 O ATOM 13832 CD PRO D 384 25.138 86.387 87.752 1.00 25.58 C ATOM 13832 CD ASN D 385 26.444 86.662 85.198 1.00 25.76 C ATOM 13833 CG ASN D 385 27.162 85.376 85.639 1.00 25.58 C ATOM 13836 CG ASN D 385 28.619 87.592 1.00 25.58 C ATOM 13836 CO ASN D 385 28.619 85.650 87.233 1.00 25.58 C ATOM 13840 C ASN D 385 29.548 85.537 85.061 1.00 25.58 C ATOM 13841 O ASN D 385 25.104 85.409 87.233 1.00 25.58 C ATOM 13844 CA VAL D 386 22.814 86.907 83.641 1.00 25.63 C ATOM 13844 CA VAL D 386 22.814 86.907 83.641 1.00 25.63 C ATOM 13846 CG VAL D 386 22.814 86.907 83.641 1.00 25.63 C ATOM 13846 CG VAL D 386 22.814 86.907 83.641 1.00 25.63 C ATOM 13846 CG VAL D 386 22.814 86.907 83.641 1.00 25.58 C ATOM 13856 C VAL D 386 22.814 86.907 83.641 1.00 25.65 N ATOM 13856 C VAL D 386 22.814 86.907 83.641 1.00 25.59 N ATOM 13856 C VAL D 386 22.818 86.227 81.46 86.007 1.00 25.59 N ATOM 13856 C VAL D 386 22.818 86.227 81.46 86.007 1.00 25.50 C ATOM 13856 C VAL D 386 22.818 87.212 83.831 1.00 25.51 C ATOM 13856 C VAL D 386 22.818 87.212 83.831 1.00 25.51 C ATOM 13857 C VAL D 386 22.818 87.212 83.831 1.00 25.51 C ATOM 13868 CG G LN D 387 22.933 87.938 87.397 1.00 25.53 C ATOM 13868 CG G LN D 387 22.808 87.590 82.559 1.00 24.551 C ATOM 13868 CG G LN D 387 22.808 87.590 82.559 1.00 24.553 C ATOM 13868 CG G LN D 387 22.808 87.590 82.559 1.00 24.553 C ATOM 13869 C C G LN D 387 22.808 87.590 87.227 1.00 25.53 C ATOM 13879 C C G LN D 388 18.408 87.950 87.941 1.00 25.50 C ATOM 13879 C C G LN D 388 18.408 87.96 87.970 1.00 25.50 C ATOM 13890 C C G LN D 388 18.408 87.96 87.970 1.00 25.63 C ATOM 13890 C C G LN D 388 18.408 87.96 87.970 1.00 25.85 C			-			24.	769	88.528	89.384			
ATOM 13817 CB PRO D 384				PRO D	384	25.	991	88.459				С
ATOM   13823   CD			CB	PRO D	384	27.	082					C
ATOM 13827 O PRO D 384	ATOM	13820	CG	PRO D	384							C
ATOM 13828 N ASN D 385	MOTA	13823	CD									
ATOM   13828   N   ASN   D   385   26   387   87   641   86   298   1.00   25   93   N   ATOM   13832   CB   ASN   D   385   26   444   86   662   85   198   1.00   25   25   76   C   C   ATOM   13832   CB   ASN   D   385   26   244   86   662   85   198   1.00   25   58   C   C   ATOM   13835   CG   ASN   D   385   28   619   85   560   86   047   1.00   25   58   C   C   ATOM   13836   CD   ASN   D   385   28   619   85   560   86   047   1.00   25   58   C   C   ATOM   13836   CD   ASN   D   385   28   599   85   560   87   233   1.00   25   53   C   ATOM   13840   C   ASN   D   385   25   124   86   521   48   479   1.00   25   63   C   ATOM   13841   O   ASN   D   385   25   124   86   521   48   479   1.00   25   63   C   ATOM   13842   N   AXI   D   386   24   043   87   062   84   746   1.00   25   25   3   ATOM   13844   CA   VAL   D   386   22   548   86   507   83   937   1.00   25   25   7   ATOM   13846   CB   VAL   D   386   21   548   84   609   67   67   67   67   67   67   67   6	MOTA											
ATOM 13830 CA ASN D 385			0									
ATOM 13832 CB ASN D 385												
ATOM 13835 CG ASN D 385												
ATOM 13837 ND2 ASN D 385												
ATOM 13840 C ASN D 385												
ATOM 13840 C ASN D 385												
ATOM 13841 N												
ATOM 13842 N VAL D 386												
ATOM 13844 CB VAL D 386				WAT. D	386							
ATOM 13846 CB VAL D 386												
ATOM 13848 CG1 VAL D 386												C.
ATOM 13856 C VAL D 386								87.212	83.843			С
ATOM 13856 C VAL D 386 22.988 87.590 82.555 1.00 25.15 C ATOM 13857 O VAL D 386 23.303 88.783 82.506 1.00 24.96 O ATOM 13858 N GLN D 387 22.750 86.850 81.467 1.00 25.13 N ATOM 13860 CA GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13865 CG GLN D 387 24.872 85.665 79.7924 1.00 24.89 C ATOM 13866 CD GLN D 387 24.862 84.237 80.274 1.00 25.18 C ATOM 13866 CD GLN D 387 24.863 84.237 80.274 1.00 25.18 C ATOM 13869 OE1 GLN D 387 24.186 83.364 79.502 1.00 25.79 O ATOM 13873 C GLN D 387 21.742 87.918 79.384 1.00 25.83 C ATOM 13873 C GLN D 387 21.742 87.918 79.384 1.00 25.83 C ATOM 13875 N GLU D 388 20.544 87.585 79.875 1.00 26.40 N ATOM 13877 CA GLU D 388 19.297 88.098 79.290 1.00 26.42 C ATOM 13882 CG GLU D 388 19.297 88.098 79.290 1.00 26.42 C ATOM 13885 CD GLU D 388 19.135 66.340 77.418 1.00 26.39 C C ATOM 13886 OE1 GLU D 388 18.462 86.968 78.644 1.00 26.39 C C ATOM 13886 OE1 GLU D 388 18.706 84.096 77.202 1.00 26.40 C ATOM 13887 CD GLU D 388 18.706 84.096 77.202 1.00 26.40 C ATOM 13888 C GLU D 388 18.706 84.096 77.202 1.00 26.40 C ATOM 13888 C GLU D 388 18.706 84.096 77.202 1.00 26.62 C C ATOM 13888 C GLU D 388 18.706 84.096 77.202 1.00 26.64 C C ATOM 13889 C GLU D 388 18.706 84.096 77.202 1.00 26.64 C C ATOM 13889 C GLU D 388 18.706 84.096 77.202 1.00 26.64 C C ATOM 13889 C GLU D 388 18.706 84.096 77.202 1.00 26.64 C C ATOM 13889 C GLU D 388 18.706 84.096 77.202 1.00 26.63 C C ATOM 13889 C GLU D 388 18.706 84.096 77.202 1.00 26.64 C C ATOM 13890 N PRO D 389 18.901 80.901 80.910 1.00 26.674 O ATOM 13890 C C PRO D 389 18.901 80.901 80.910 1.00 26.81 N ATOM 13890 C C PRO D 389 19.406 91.624 82.451 1.00 27.02 C 6.83 C C ATOM 13904 N GLY D 390 16.904 91.668 80.294 1.00 27.13 N ATOM 13904 N GLY D 390 16.904 91.668 80.294 1.00 27.13 N ATOM 13904 N GLY D 390 16.904 91.668 80.294 1.00 27.02 C C ATOM 13904 N GLY D 390 16.904 91.668 80.294 1.00 27.02 C C ATOM 13901 C A ARG D 391 14.846 89.916 77.251 1.00 26.85 C ATOM 13901 C A ARG D 391 14.846 89.916 77.252 1.00 26.85 C ATOM 13901 C A ARG D 391 14.846 89.916 77.252 1.00 26						21	.480	87.106				С
ATOM 13857 O VAL D 386 23.303 88.783 82.506 1.00 24.96 O ATOM 13860 CA GLN D 387 22.780 86.880 81.467 1.00 25.50 C ATOM 13860 CA GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13865 CG GLN D 387 24.872 85.665 79.794 1.00 24.89 C ATOM 13868 CD GLN D 387 24.863 84.237 80.274 1.00 25.18 C ATOM 13869 OE1 GLN D 387 24.863 84.237 80.274 1.00 25.18 C ATOM 13870 NE2 GLN D 387 24.186 83.364 79.502 1.00 25.79 O ATOM 13870 NE2 GLN D 387 24.186 83.364 79.502 1.00 25.79 O ATOM 13870 NE2 GLN D 387 21.742 87.918 79.384 1.00 25.87 O ATOM 13874 O GLN D 387 21.878 88.634 78.386 1.00 25.87 O ATOM 13875 N GLU D 388 20.544 87.585 79.875 1.00 26.40 N ATOM 13875 CB GLU D 388 19.297 88.098 79.290 1.00 26.42 C ATOM 13882 CG GLU D 388 19.297 88.098 79.290 1.00 26.42 C ATOM 13885 CD GLU D 388 18.482 86.968 78.644 1.00 26.39 C ATOM 13885 CD GLU D 388 19.006 84.039 78.077 1.00 26.40 C ATOM 13887 OE2 GLU D 388 19.006 84.039 78.077 1.00 26.40 C ATOM 13888 OE1 GLU D 388 18.706 84.896 77.220 1.00 26.62 C ATOM 13889 OE GLU D 388 18.066 84.616 76.158 1.00 25.94 O ATOM 13889 OE2 GLU D 388 18.066 84.616 76.158 1.00 25.94 O ATOM 13889 CA GLU D 388 18.472 88.796 80.370 1.00 26.62 C C ATOM 13889 CA GLU D 388 18.999 89.901 80.910 1.00 26.681 N ATOM 13891 CA PRO D 389 18.341 90.606 82.023 1.00 26.83 C ATOM 13899 CA PRO D 389 18.341 90.606 82.023 1.00 26.83 C ATOM 13899 CA PRO D 389 18.341 90.606 82.023 1.00 26.83 C ATOM 13899 CD PRO D 389 18.341 90.606 82.023 1.00 26.85 C ATOM 13903 O PRO D 389 18.341 90.606 82.023 1.00 26.85 C ATOM 13903 O PRO D 389 18.341 90.606 82.023 1.00 26.85 C ATOM 13900 O GLY D 390 16.904 91.668 80.294 1.00 27.20 O ATOM 13900 O GLY D 390 16.904 91.668 80.294 1.00 27.20 O ATOM 13900 O GLY D 390 16.904 91.668 80.294 1.00 27.20 O ATOM 13900 O GLY D 390 16.904 91.668 80.294 1.00 27.23 C ATOM 13900 C GLY D 390 16.904 91.668 80.294 1.00 27.27 C C ATOM 13910 C ARG D 391 14.486 89.916 79.555 1.00 26.85 C C ATOM 13911 N ARG D 391 14.486 89.916 79.555 1.00 26.85 C C ATOM 13911 N ARG D 391 14.486 89.916 79.550 1.00 26.85 C C ATOM 13912			C			22	.988					
ATOM 13860 CA GLN D 387 22.983 87.360 80.103 1.00 25.50 C ATOM 13865 CB GLN D 387 23.606 86.270 79.227 1.00 25.28 C ATOM 13865 CG GLN D 387 24.872 85.665 79.794 1.00 24.89 C ATOM 13868 CD GLN D 387 24.863 84.237 80.274 1.00 25.79 O ATOM 13869 OE1 GLN D 387 24.186 83.364 79.502 1.00 25.79 O ATOM 13870 NE2 GLN D 387 24.186 83.364 79.502 1.00 25.79 O ATOM 13873 C GLN D 387 21.742 87.918 79.384 1.00 25.83 C ATOM 13874 O GLN D 387 21.742 87.918 79.384 1.00 25.87 O ATOM 13875 N GLU D 388 20.544 87.585 79.875 1.00 26.23 N ATOM 13875 CB GLU D 388 19.297 88.098 79.290 1.00 26.42 C ATOM 13885 CD GLU D 388 19.407 89.807 87.418 1.00 26.39 C ATOM 13886 OE1 GLU D 388 19.135 86.340 77.418 1.00 26.39 C ATOM 13887 OE2 GLU D 388 19.006 84.039 78.077 1.00 27.22 O ATOM 13888 OE1 GLU D 388 18.706 84.896 77.202 1.00 26.62 C ATOM 13889 OF GLU D 388 18.066 84.616 76.158 1.00 25.94 O ATOM 13889 OF GLU D 388 18.472 88.796 80.370 1.00 26.63 C ATOM 13889 OF GLU D 388 18.472 88.796 80.370 1.00 26.63 C ATOM 13889 CA PRO D 389 18.341 90.606 82.023 1.00 26.81 N ATOM 13899 CA PRO D 389 18.341 90.606 82.023 1.00 26.81 N ATOM 13899 CA PRO D 389 18.341 90.606 82.023 1.00 26.81 C ATOM 13890 CA PRO D 389 19.406 91.624 82.451 1.00 26.80 C ATOM 13890 CA PRO D 389 19.406 91.624 82.451 1.00 26.80 C ATOM 13903 O PRO D 389 19.406 91.624 82.451 1.00 26.80 C ATOM 13904 N GLY D 390 16.690 91.514 82.464 1.00 27.20 O ATOM 13909 C GRY D 389 19.406 91.624 82.451 1.00 26.85 C ATOM 13909 C GLY D 390 16.509 91.514 82.464 1.00 27.20 O ATOM 13900 O GLY D 390 16.509 91.514 82.464 1.00 27.20 O ATOM 13901 CA ARG D 391 14.486 89.916 79.515 1.00 26.85 C ATOM 13901 CA ARG D 391 14.486 89.916 79.555 1.00 27.97 O ATOM 13911 N ARG D 391 14.486 89.916 79.555 1.00 27.27 O ATOM 13912 CA ARG D 391 14.486 89.916 79.555 1.00 27.97 O ATOM 13913 CA ARG D 391 14.486 89.916 79.555 1.00 27.97 O ATOM 13913 CA ARG D 391 14.486 89.916 79.555 1.00 27.97 O ATOM 13913 CA ARG D 391 14.486 89.916 79.555 1.00 27.97 O ATOM 13914 NE ARG D 391 14.4356 86.794 76.294 1.00 27.05 C ATOM 13924 NE ARG D			0	VAL D	386							
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ATOM 13915 CB ARG D 391 14.278 87.645 78.736 1.00 26.79 C ATOM 13918 CG ARG D 391 13.856 87.854 77.272 1.00 27.15 C ATOM 13921 CD ARG D 391 14.356 86.794 76.294 1.00 27.09 C ATOM 13924 NE ARG D 391 14.388 85.448 76.885 1.00 27.35 N ATOM 13926 CZ ARG D 391 14.920 84.377 76.292 1.00 26.90 C		13911	N									
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ATOM 13921 CD ARG D 391 14.356 86.794 76.294 1.00 27.09 C ATOM 13924 NE ARG D 391 14.388 85.448 76.885 1.00 27.35 N ATOM 13926 CZ ARG D 391 14.920 84.377 76.292 1.00 26.90 C												C
ATOM 13924 NE ARG D 391 14.388 85.448 76.885 1.00 27.35 N ATOM 13926 CZ ARG D 391 14.920 84.377 76.292 1.00 26.90 C												0
ATOM 13926 CZ ARG D 391 14.920 84.377 76.292 1.00 26.90 C												
AION 15520 On this both												
ATOM 1092-1-NIL ARG D 221 10.100 01.100 70.012 1.00 20.01												
	A-I-OM	ı <u>1</u> -3-9-2-/	Nri		1117.1		J. 10J	03.400	.5.072			<u> </u>

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13930 13933 13934 13935 13937 13939 13941 13945 13950 13951 13953 13955 13964 13963 13964 13966 13966 13966 13974 13975 13976 13978 13980 13983 13985 13985	NH2 CONCACCCONCACCCONCACCCCCCCCCCCCCCCCCCCC	ARG ARG VAL VAL VAL VAL GLU GLU GLU GLU GLU GLU GLU LEU LEU LEU LEU		391 392 392 392 393 393 393 393 393 393 393		14.902 13.671 12.688 14.569 14.401 15.734 15.490 16.599 13.350 12.525 13.375 12.383 12.675 11.466 11.775 11.975 11.790 10.969 10.010 10.859 9.551 9.694 8.870 7.534 9.333 10.452 10.912 12.316 9.942	90.303 89.967 89.785 88.727 88.637 87.767 86.545 85.505 85.050 84.477 84.033	76.920 81.101 81.346 82.040 83.448 84.259 85.798 83.841 84.186 83.861 84.364 83.754 83.301 82.130 80.968 82.359 83.987 84.862 82.746 82.746 82.746 82.746 82.746 82.746 82.746 82.746 82.746 82.746 82.840 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.825 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.824 83.825 83.824 83.825 83.824 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83.825 83	1.00 26.29 1.00 26.54 1.00 26.65 1.00 26.65 1.00 26.51 1.00 27.06 1.00 26.65 1.00 27.26 1.00 27.22 1.00 27.22 1.00 27.21 1.00 27.21 1.00 27.50 1.00 27.64 1.00 28.08 1.00 28.08 1.00 28.18 1.00 28.18 1.00 28.07 1.00 27.25 1.00 27.25 1.00 27.25 1.00 26.65 1.00 26.65 1.00 26.65 1.00 26.66 1.00 26.77 1.00 26.66 1.00 26.77 1.00 26.79 1.00 27.22 1.00 27.22 1.00 27.22
ATOM ATOM	13993 13994	C O	LEU LEU	D	395		8.912 7.991		85.283 85.839	1.00 26.49
ATOM ATOM	13995 13997	N	GLN	D	396	-	9.580	87.829	85.881	1.00 26.38 1.00 26.22
ATOM	13999	CA CB	GLN GLN		396 396		9.301 10.475	88.271 89.114	87.252 87.767	1.00 26.30 1.00 25.98
ATOM	14002	CG	GLN	D	396		10.339	89.635	89.210	1.00 25.82
ATOM ATOM	14005 14006	CD OE1	GLN GLN		396 396		11.449	90.611	89.590	1.00 24.18
ATOM	14007	NE2	GLN				12.298 11.449	90.291 91.797	90.437 88.947	1.00 21.35 1.00 21.28
MOTA	14010	С	GLN	D	396		8.003	89.088	87.354	1.00 21.28
ATOM ATOM	14011	0	GLN		396	·	7.320	89.018	88.380	1.00 26.42
ATOM	14012 14014	N CA	GLN GLN		397 397		7.670	89.843	86.289	1.00 26.64
ATOM	14016	CB	GLN		397		6.553 6.525	90.798 91.683	86.317 85.053	1.00 26.71 1.00 26.94
ATOM	14019	CG	${\tt GLN}$	D	397		5.948	93.094	85.271	1.00 20.94
ATOM ATOM	14022	CD	GLN				6.983	94.187	85.067	1.00 26.83
ATOM	14023 14024	NE2	GLN GLN				7.135	94.694	83.958	1.00 26.15
ATOM	14027	C	GLN				7.696 5.185	94.551 90.133	86.137 86.519	1.00 26.63 1.00 26.73
MOTA	14028	0	GLN	D	397		4.417	90.588	87.358	1.00 26.73
ATOM ATOM	14029	N	PRO	D	398		4.856	89.091	85.750	1.00 26.78
ATOM	14030 14032	CA CB	PRO PRO				3.631 3.774	88.315	86.008	1.00 26.61
MOTA	14035	CG	PRO				4.591	87.115 87.622	85.071 83.934	1.00 26.74 1.00 26.78
ATOM	14038	CD	PRO 1	D	398		5.573	88.578	84.563	1.00 26.78
ATOM	14041	C	PRO	D	398		3.504	87.830	87.448	1.00 26.29
MOTA MOTA	14042 14043	O N	PRO TYR	ם ח	398 398		2.415	87.949	88.004	1.00 26.09
ATOM	14045	CA	TYR :				4.584 4.533	87.302 86.789	88.029 89.398	1.00 26.04 1.00 25.83
MOTA	14047	CB	TYR	D.	399		5.810	86.029	89.765	1.00 25.83
MOTA	14050	CG	TYR	D :	399		5.965	84.786	88.928	1.00 26.07

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ATOM	14051	CD1		399	6.900		87.903	1.00 26.66
MOTA	14053	CE1		399	7.039		87.104	1.00 26.67
MOTA	14055	CZ		399	6.226	82.506	87.322	1.00 26.59
MOTA	14056	OH		399	6.391	81.392	86.526	1.00 25.95
ATOM	14058	CE2		399	5.274	82.532	88.338	1.00 26.51
MOTA	14060	CD2		399	5.144	83.677	89.130	1.00 26.33
ATOM	14062	С		399	4.286	87.911	90.365	1.00 25.44
ATOM	14063	0	TYR I	399	3.615	87.710	91.377	1.00 26.13
MOTA	14064	N		400	4.824	89.089	90.050	1.00 25.12
MOTA	14066	CA		400	4.635	90.269	90.888	1.00 25.22
ATOM	14068	CB		400	5.652	91.407	90.531	1.00 25.28
MOTA	14070		VAL		5.359	92.672	91.342	1.00 25.47
MOTA	14074	CG2		400	7.101	90.957	90.799	1.00 25.33
ATOM	14078	С		400	3.170	90.751	90.794	1.00 24.85
MOTA	14079	0		400	2.553	91.087	91.808	1.00 24.57
MOTA	14080	N	GLU I	401	2.618	90.751	89.577	1.00 24.80
ATOM	14082	CA		401	1.219	91.153	89.324	1.00 24.54
ATOM	14084	CB		401	0.950	91.243	87.821	1.00 24.93
MOTA	14087	CG		401	1.589	92.435	87.120	1.00 25.22
MOTA	14090	CD		401	1.648	92.251	85.616	1.00 26.82
ATOM	14091	OE1			0.925	91.366	85.092	1.00 28.67
MOTA	14092	OE2			2.411	92.988	84.949	1.00 27.86
MOTA	14093	С		401	0.176	90.182	89.918	1.00 24.23
ATOM	14094	0		401	-1.003	90.581	90.290	1.00 25.03
MOTA	14095	N	ALA I		0.621	88.910	90.002	1.00 23.46
MOTA	14097	CA	ALA I		-0.117	87.820	90.670	1.00 22.74
ATOM	14099	CB	ALA I		0.489	86.490	90.270	1.00 22.65
ATOM	14103	С	ALA I		-0.109	87.951	92.216	1.00 22.20
MOTA	14104	0	ALA I		-1.144	87.757	92.860	1.00 21.72
MOTA	14105	N		403	1.047	88.270	92.804	1.00 21.80
ATOM	14107	CA	LEU I		1.153	88.378	94.275	1.00 21.69
ATOM	14109	CB	TEO I		2.614	88.365	94.764	1.00 21.32
ATOM	14112	CG	LEU I		2.877	88.644	96.263	1.00 20.59
ATOM	14114	CD1	LEU I		2.174	87.643	97.193	1.00 19.48
MOTA	14118		LEU I		4.374	88.685	96.553	1.00 19.77
MOTA	14122	C	LEU [		0.460	89.643	94.768	1.00 21.92
ATOM	14123	0	-LEU [		-0.014	89.687	95.903	1.00 21.96
ATOM ATOM	14124 14126	И	LEU [		0.370	90.655	93.897	1.00 22.17
ATOM		CA	LEU I		-0.155	91.953	94.316	1.00 22.36
ATOM	14128 14131	CB	LEU I		0.215	93.045	93.303	1.00 21.86
MOTA	14131	CG CD1	LEU I		-0.498	94.394	93.455	1.00 21.89
MOTA	14137	CD2	LEU D		-0.338	95.016	94.838	1.00 21.21
ATOM	14141	CDZ	LEU I		-0.009	95.367	92.391	1.00 22.61
ATOM	14142	Õ	LEU I		-1.665	91.875	94.510	1.00 22.77
ATOM	14143	N	SER D		-2.213	92.426	95.471	1.00 22.95
ATOM	14145	CA	SER D		-2.328 -3.775	91.181	93.587	1.00 23.38
ATOM	14147	CB	SER D		-4.296	91.032	93.623	1.00 23.72
ATOM	14150	OG	SER D			90.563	92.261	1.00 23.64
ATOM	14152	C	SER D		-4.049 $-4.174$	91.544	91.265	1.00 23.54
ATOM	14153	Ö	SER D		-5.198	90.041	94.704	1.00 24.14
ATOM	14154	N	TYR D		-3.367	90.211	95.360	1.00 24.22
ATOM	14156	CA	TYR D		-3.599	89.005	94.878	1.00 24.67
ATOM	14158	CB	TYR D		-2.493	88.032 86.973	95.935	1.00 25.59
ATOM	14161	CG	TYR D		-2.802		95.951	1.00 25.65
MOTA	14162	CD1			-3.641	85.800 84.777	96.852	1.00 26.18
ATOM	14164		TYR D		-3.934	83.698	96.425	1.00 27.08
ATOM	14166	CZ	TYR D		-3.392	83.637	97.246	1.00 27.03
ATOM	14167	ÓН	TYR D		-3.685	82.570	98.509 99.320	1.00 26.80
MOTA	14169		TYR D		-2.565	84.645	98.962	1.00 26.96
ATOM	14171	CD2	TYR D	406	-2.274	85.718	98.132	1.00 27.03 1.00 26.61
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ATOM	14173	С	TYR	406		-3.682	88.684	97.324	1 00 00 00
ATOM	14174	O	TYR			-4.589	88.364		1.00 26.22
ATOM	14175	N	THR			-2.735	89.575		1.00 26.36
ATOM	14177	CA		407		-2.709			1.00 26.85
ATOM	14179	CB	THR				90.253		1.00 27.09
ATOM	14181	OG1		0 407		-1.346	90.951		1.00 26.75
ATOM	14183	CG2				-0.995	91.848		1.00 25.68
ATOM	14187	CG2				-0.209	89.952		1.00 27.05
ATOM	14188			407		-3.850	91.269		1.00 27.77
ATOM		0	THR I			-4.240		100.219	1.00 27.85
	14189	N	ARG I	408		-4.371	91.741		1.00 28.43
ATOM	14191	CA		408		-5.540	92.624		1.00 29.05
ATOM	14193	CB	ARG I			-5.687	93.316	96.611	1.00 29.01
ATOM	14196	CG	ARG I			-4.740	94.472	96.397	1.00 29.00
MOTA	14199	CD	ARG I			-4.713	94.977		1.00 29.14
ATOM	14202	NE	ARG I			-5.018	96.400		1.00 28.56
ATOM	14204	CZ	ARG I	408		-4.275	97.384		1.00 29.15
MOTA	14205	NH1				-3.165	97.124		1.00 30.30
MOTA	14208	NH2	ARG I	408		-4.648	98.643		1.00 29.46
ATOM	. 14211	С	ARG I	408		-6.839	91.881		1.00 29.68
MOTA	14212	0	ARG I	408		-7.776	92.485		1.00 29.93
ATOM.	14213	N	ILE I			-6.898	90.586		1.00 29.93
ATOM	14215	CA	ILE [			-8.078	89.760		1.00 30.33
MOTA	14217	CB		409		-8.316	88.743		1.00 30.71
ATOM	14219	CG1				-8.597	89.474		1.00 30.70
ATOM	14222	CD1		409		-8.176	88.693		1.00 29.85
ATOM	14226	CG2				-9.487	87.800		1.00 28.92
ATOM	14230	C		409		-7.967	89.042		1.00 30.58
ATOM	14231	Õ	ILE I			-8.972			1.00 31.33
ATOM	14232	N	LYS					100.253	1.00 31.40
ATOM	14234	CA	LYS			-6.755	88.705		1.00 32.21
ATOM	14236	CB				-6.568		101.354	1.00 32.89
ATOM	14239				•	-5.117		101.573	1.00 32.85
ATOM	14239	CG	LYS D			-4.868	87.026	102.929	1.00 33.02
ATOM	14242	CD	LYS D			-3.689	86.066	102.900	1.00 32.61
ATOM	14245	CE	LYS D			-3.175	85.775	104.305	1.00 33.06
ATOM		NZ	LYS D			-1.844		104.288	
ATOM	14252	C	LYS D			-7.006		102.376	1.00 33.50
ATOM	14253	0	LYS D			-8.127	89.120	102.904	1.00 33.65
	14254	N	ARG D			-6.151	90.189	102.593	1.00 33.98
ATOM	14256	CA	ARG D			-6.446		103.497	1.00 34.36
ATOM	14258	СВ	ARG D			-5.413	91.354	104.636	1.00 34.63
ATOM	14261	CG	ARG D			-4.864	89.996	105.025	1.00 35.78
ATOM	14264	CD	ARG D			-4.140	89.958	106.357	1.00 37.58
MOTA	14267	NE	ARG D			-4.780	89.044	107.309	1.00 38.57
ATOM	14269	CZ	ARG D	411		-4.145	88.358	108.266	1.00 39.14
MOTA	14270	NH1	ARG D	411		-2.819	88.448	108.430	1.00 39.02
ATOM	14273		ARG D			-4.851	87.567	109.071	1.00 38.86
ATOM	14276	С	ARG D			-6.476	92.631	102.717	1.00 34.11
ATOM	14277	0	ARG D			-5.430	93.253	102.501	1.00 34.15
ATOM	14278	N	PRO D			-7.665		102.297	1.00 33.80
ATOM	14279	CA	PRO D			-7.804		101.635	1.00 33.58
MOTA	14281	CB	PRO D			-9.184	94.309	100.961	1.00 33.54
MOTA	14284	CG	PRO D			-9.790	92.996	101.355	1.00 33.66
MOTA	14287	CD	PRO D				92.385	102.430	1.00 33.77
MOTA	14290	С	PRO D			-7.760	95.552	102.619	1.00 33.77
ATOM	14291	0	PRO D		٠	-7.917		102.195	1.00 33.32
MOTA	14292	N	GLN D			-7.555		103.904	1.00 33.47
MOTA	14294	CA	GLN D			-7.507		103.904	1.00 33.03
MOTA	14296	CB	GLN D			-8:324		104.363	1.00 32.59
ATOM	14299	CG	GLN D			-9.648	95.069	105.852	
MOTA	14302	CD	GLN D			-10.850	96.000	105.832	1.00 32.48
ATOM	14303		GLN D	413		-11.115	96.622	103.790	1.00 32.38
			_				50.022	~04.130	1.00 32.10

ATOM	14304	NE2	GLN I	) 4	13	-11.587	96.084	106.891	1.00	32.01	N
ATOM	14307	С	GLN E	) 4	13	-6.053	96.566	105.376	1.00	32.12	С
ATOM	14308		GLN I			-5.771	97.638		1.00	32.43	0
ATOM	14309		ASP I			-5.143	95.627		1.00	30.97	N
ATOM	14311		ASP [			-3.724	95.823		1.00		С
	14313		ASP I			-3.159	94.621		1.00		С
MOTA			ASP I			-1.724	94.844			30.71	Č
MOTA	14316						95.959			30.59	ō
ATOM	14317		ASP I			-1.178	93.950	100.401		33.64	ŏ
MOTA	14318		ASP I			-1.053		104.070		29.51	c
MOTA	14319	C	ASP I			-2.948					Ö
MOTA	14320	0	ASP 1			-2.345	95.079			29.27	
MOTA	14321	N	GLN I			-2.938	97.256			28.56	N
ATOM	14323	CA	GLN I			-2.243		102.312		27.98	C
MOTA	14325	CB	GLN !			-2.849		101.644		28.17	C
ATOM	14328	CG	GLN I	D 4	415	-2.454		100.165		29.01	С
ATOM	14331	CD	GLN :	D 4	415	-3.344	99.883	99.379		29.77	С
ATOM	14332	OE1	GLN :	D 4	415	-3.842	100.880	99.915		30.21	0
ATOM	14333	NE2	GLN	D 4	415	-3.532	99.581	98.096	1.00	30.34	N
ATOM	14336	С	GLN			-0.725		102.438	1.00	27.08	С
ATOM	14337	Õ	GLN			-0.072	98.088	101.450	1.00	27.03	0
ATOM	14338	N	LEU			-0.164		103.633	1.00	26.01	N
	14340	CA	LEU			1.287		103.817	1.00	25.35	С
ATOM	14342	CB	LEU			1.632		105.098		25.26	С
ATOM	14345	CG	LEU			1.305		105.023		25.38	С
ATOM	14347		LEU			1 586	100.518			26.29	С
ATOM	14351		LEU			2 090	100.548	103.906		24.59	С
		C	LEU			1.916		103.846		24.93	C
ATOM	14355					3.141		103.919		24.37	Ō
MOTA	14356	0	LEU			1.073		103.761		24.23	Ň
ATOM	14357	N	ARG					103.770		23.87	C
ATOM	14359	CA	ARG			1.545		103.770		24.30	c
MOTA	14361	CB	ARG			0.363				24.85	č
ATOM	14364	CG	ARG			0.738		103.953		26.32	Ċ
ATOM	14367	CD	ARG			-0.239		103.143		25.65	И
ATOM	14370	NE	ARG			0.067		103.357			C
MOTA	14372	CZ	ARG			-0.120		104.500		25.52	N
MOTA	14373		ARG			-0.653		105.543		24.86	N
MOTA	14376		ARG			0.224		104.601		27.39	C
MOTA	14379	С	ARG			2.322		102.490		22.58	
ATOM	14380	0	ARG			3.385		102.555		21.77	0
MOTA	14381	N	PHE			1.807		101.341		21.50	N C
MOTA	14383	CA	PHE			2.508		100.085		21.07	2
ATOM	14385	CB	PHE			1.691				20.69	C
ATOM	14388	CG	PHE			2.377				21.65	C
MOTA	14389	CD1	PHE	D	418	2.880		97.306		22.82	C
MOTA	14391	CE1	PHE			3.518				22.73	C
MOTA	14393	CZ	PHE			3.665				21.48	C
MOTA	14395		PHE			3.186				20.67	C
MOTA	14397	CD2	PHE			2.551				21.06	C
MOTA	14399	С	PHE			3.922		100.030		20.35	C
ATOM	14400	0	PHE			4.873				20.85	0
ATOM	14401	N	PRO	D	419	4.081	95.623	100.325		19.44	N
MOTA	14402	CA	PRO			5.415		100.322		19.00	C
ATOM	14404	CB	PRO	D	419	5.151		100.695		19.07	С
ATOM	14407	CG	PRO			3.708		100.399		19.03	С
ATOM		CD	PRO			3.045		100.659		19.88	C
MOTA		C	PRO			6.323	95.564	101.338		18.70	С
MOTA		Ō			419	7.491		101.075	1.00	18.25	0
MOTA		N			420	5.781		102.475		18.74	N
ATOM		CA			420	6.570		103.509		19.10	С
ATOM		CB			420	5.727		104.772		19.42	C
ATOM					420	5.610		105.690		21.39	C

MOTA		CD	ARG		420		5.506	95 17	1 107.174	1 1 0/	2 24 71				
MOTA		NE	ARG		420		5.136		2 108.027		24.71 25.99				C
ATOM		CZ			420		3.894	96.65	4 108.327	1.00	27.35			•	. С
ATOM ATOM	14431 14434	NH1			420		2.846	95.98	8 107.837	1.00	28.76				N
ATOM		C	ARG	L	420	•	3.692	97.69	1 109.124	1.00	28.38				N
ATOM	14438	Ö			420		7.154		2 103.012		18.86				C
ATOM	14439	N			421		8.284 6.382		5 103.339 1 102.216		18.33				0
ATOM	14441	CA			421		6.832	91 19	9 101.635		) 18.99 ) 19.13		•		N
ATOM	14443	CB	MET	D	421		5.700		1 100.862		19.13				C
ATOM	14446	CG			421		4.783	89.69	5 101.721	1.00	20.31				C
ATOM ATOM	14449 14450	SD	MET		421		3.336	89.25	2 100.764	1.00	21.27				. s
ATOM	14454	CE C			421		3.750		6 100.250	1.00	21.18				Ċ
ATOM	14455	Ö	MET		421		7.973 8.883		2 100.674		18.77				С
MOTA	14456	N			422		7.900	92.50	8 100.605		18.22				0
ATOM	14458	CA	LEU	D	422		8.961			1.00	18.49				1
ATOM	14460	CB	LEU	D	422		8.500				19.09		•		C
ATOM	14463	CG			422		7.224	93.543			19.36	•			C
ATOM ATOM	14465		LEU				6.874		96.311	1.00	20.66	•			Ö
MOTA	14469 14473	CD2			422 422		7.385	92.288		1.00	19.92				č
ATOM	14474	ŏ	LEU			•	10.165 11.298	93.360			19.29				C
ATOM	14475	N			423		9.930	93.160	99.322 100.874		19.59				0
MOTA	14477	CA	MET	D	423		11.037	94.491	100.874		19.59 20.09				N
ATOM	14479	CB	MET				10.549		102.908		20.43				C
ATOM ATOM	14482	CG	MET	D	423		9.777	96.590	102.599	1.00	23.17				C
ATOM	14485 14486	SD CE	MET	D	423 423		10.620	97.852	101.626		29.21				s
ATOM	14490	C.	MET	ם	423		12.328 11.861	97.743	102.213		28.12				С
ATOM	14491	ŏ			423		13.019	93.310	102.246 102.573	1.00	19.20				С
	. 14492	N			424		11.260	92.137	102.373	1.00	18.48 19.52				0
ATOM	14494	CA	LYS	D	424		11.970	90.937	102.758		19.52				N
ATOM	14496	СВ	LYS	D	424		10.984	89.863	103.164	1.00	20.40				C
ATOM ATOM	14499 14502	CG CD	LYS				10.073	90.273	104.345		21.46				č
ATOM	14505	CE	LYS LYS				10.796 10.134	90.295	105.693	1.00	24.24				C
MOTA	14508	NZ	LYS	D	424		9.692	91.289	106.695 106.067	1.00	26.61				С
ATOM	14512	С	LYS				12.949	90.380	100.067	1.00	28.24 19.85				N
ATOM	14513	0	LYS	D	424		13.913	89.731	102.136	1.00	20.18				C
ATOM	14514	N	LEU				12.718	90.642	100.451	1.00	19.63				O N
ATOM ATOM	14516 14518	CA CB	LEU				13.709	90.377	99.398	1.00	19.13				C
ATOM	14521	CG	LEU LEU		425		13.155	90.746		1.00	18.97				C
MOTA	14523		LEU	D	425		11.926 11.445	90.004 90.629	97.484	1.00	18.90				C
MOTA	14527	CD2	LEU	D	425		12.229	88.521	96.155 97.335		17.97 18.45				C
ATOM	14531	С	LEU	D	425		14.997	91.170	99.605		18.76		•		C
ATOM ATOM	14532	0	LEU	D	425		16.080	90.714	99.259		18.22				C 0
ATOM	14533 14535		VAL				14.852	92.383	100.117		18.84				Ŋ
MOTA	14537		VAL VAL				15.991	93.231	100.456	1.00	19.33				Ĉ
ATOM	14539	CG1	VAL	ם	426		15.564 16.794	94.666	100.888	1.00	19.58				. C
ATOM	.14543	CG2	VAL	D	426		14.524	95.278	100.987 99.903	1.00	19.60				C
MOTA	14547	C	VAL	D	426		16.766	92.612	101.609	1 00	19.48 19.51				C
ATOM	14548		VAL			•	17.999	92.603	101.612	1.00	19.27				CO
ATOM ATOM	14549 14551	N CA	SER	D	427		16.022	92.094	102.584	1.00	19.50				Ŋ
ATOM	14551		SER SER				16.618	91.452	103.728	1.00	19.64				C
ATOM	14556	OG	SER	D	427		15.560 14.918	91.076	104.771		19.70				C
MOTA	14558		SER				17.359	90.217	105.261 103.268		18.68				0
MOTA	14559	0	SER	D	427		18.460	89.960	103.288		19.62 19.71				C
										00	11				. 0

MOTA	14560	N	LEU D 428		16.768	99 461	102.350	1 00 10
ATOM	14562	CA	LEU D 428		17.430	99.461	102.350	1.00 19.60
MOTA	14564	CB	LEU D 428		16.542	87 539	101.823	1.00 19.70
MOTA	14567	CG	LEU D 428		15.371		101.519	1.00 19.32 1.00 18.01
ATOM	14569	CD1	LEU D 428		14.341	86.450	100.519	1.00 18.01
MOTA	14573		LEU D 428		15.845	85.662	102.306	1.00 17.49
MOTA	14577	С	LEU D 428		18.798	88.546	101.204	1.00 20.08
ATOM	14578	0	LEU D 428		19.719	87.768	101.389	1.00 20.31
ATOM	14579	N	ARG D 429		18.952	89.682	100.535	1.00 20.87
ATOM	14581	CA	ARG D 429		20.265	90.082	100.031	1.00 21.39
ATOM	14583	CB	ARG D 429		20.182	91.347	99.198	1.00 21.37
ATOM	14586	CG	ARG D 429		19.280	91.251	98.003	1.00 20.84
MOTA MOTA	14589	CD	ARG D 429		19.770	90.313	96.958	1.00 20.94
ATOM	14592 14594	NE	ARG D 429		18.678	89.931	96.073	1.00 21.17
MOTA	14595	CZ NH1	ARG D 429 ARG D 429		18.610	90.228	94.782	1.00 18.65
ATOM	14598		ARG D 429		19.569	90.911	94.179	1.00 18.15
ATOM	14601	C	ARG D 429		17.557	89.829	94.090	1.00 18.92
ATOM	14602	ŏ	ARG D 429		21.275 22.387	90.298	101.143	1.00 22.40
ATOM	14603	N	THR D 430		20.904	89.846	101.024	1.00 23.69
MOTA	14605	CA	THR D 430		21.838	90.979	102.221 103.329	1.00 23.30
ATOM	14607	CB	THR D 430	•	21.180	91.230	103.329	1.00 23.82
MOTA	14609	OG1			21.223	93 537	103.948	1.00 23.63
MOTA	14611	CG2	THR D 430		21.980	92 197	105.710	1.00 24.57 1.00 23.10
ATOM	14615	С	THR D 430		22.283	89.928	103.710	1.00 23.10
ATOM	14616	0	THR D 430		23.434	89.762	104.364	1.00 24.24
MOTA	14617	N	LEU D 431		21.341	89.014	104.117	1.00 24.61
ATOM	14619	CA	LEU D 431		21.561	87.716	104.729	1.00 24.01
ATOM	14621	CB	LEU D 431		20.213	87.008	104.856	1.00 24.72
MOTA	14624	CG	LEU D 431		19.473	86.920	106.203	1.00 25.30
ATOM ATOM	14626	CDT	LEU D 431		20.058	87.755	107.324	1.00 25.42
ATOM	14630 14634		LEU D 431		17.988	87.212	106.047	1.00 24.32
ATOM	14635	C O	LEU D 431 LEU D 431		22.546		103.919	1.00 25.70
ATOM	14636	N	SER D 432		23.233		104.481	1.00 25.14
ATOM	14638	CA	SER D 432		22.603		102.602	1.00 26.94
ATOM	14640	CB	SER D 432		23.599 23.347	86.436	101.735	1.00 27.75
ATOM	14643	OG	SER D 432		22.562	85.771	100.264	1.00 27.96
ATOM	14645	C	SER D 432		25.020		99.649 102.101	1.00 29.47
MOTA	14646	Ο,	SER D 432		25.918		102.101	1.00 28.16
ATOM	14647	N	SER D 433		25.241		102.403	1.00 28.43 1.00 28.31
ATOM	14649	CA	SER D 433		26.575	88.527	102.835	1.00 28.31
MOTA	14651	CB	SER D 433		26.699		102.796	1.00 28.45
ATOM	14654	OG	SER D 433		26.638	90.478	101.451	1.00 28.91
MOTA	14656	C	SER D 433		26.950	87.959	104.216	1.00 28.47
ATOM ATOM	14657		SER D 433		28.082	87.536	104.426	1.00 28.09
ATOM	14658		VAL D 434		25.998	87.926	105.145	1.00 28.89
ATOM	14660 14662		VAL D 434		26.218	87.262	106.442	1.00 29.21
ATOM	14664	CB CC1	VAL D 434 VAL D 434		25.005	87.435	107.382	1.00 29.01
ATOM	14668	CGI	VAL D 434 VAL D 434		25.059	86.481	108.564	1.00 29.49
ATOM	14672		VAL D 434 VAL D 434		24.929	88.865	107.878	1.00 29.74
MOTA	14673		VAL D 434		26.569	85.767	106.236	1.00 29.32
ATOM	14674		HIS D 435		27.430 25.934	85.215	106.942	1.00 29.25
ATOM	14676		HIS D 435		25.934 26.223	85.127	105.257	1.00 29.25
ATOM	14678		HIS D 435		25.223 25.227	83.725 83.128	104.984	1.00 29.62
ATOM	14681		HIS D 435		25.667	81.818	103.33/	1.00 29.47
ATOM	14682	ND1	HIS D 435		26.210	81.699	102.432	1.00 30.09 1.00 31.27
ATOM	14684	CE1	HIS D 435		26.515	80.434	101.946	1.00 31.27
ATOM	14686	NE2	HIS D 435		26.202	79.732	103.020	1.00 32.03
ATOM	14688	CD2	HIS D 435		25.669	80.574	103.963	1.00 30.51

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MOTA	14690	С	HIS D			27.654	83.563	104.460	1.00	29.81	
ATOM	14691	0	HIS [	435		28.359		104.865		29.40	•
ATOM	14692	N	SER D			28.080		103.593			
ATOM	14694	CA	SER D			29.422				30.21	
ATOM	14696	CB	SER D					103.014		30.90	
ATOM						29.543		101.874		30.73	
	14699	OG	SER D			28.677		100.821		31.21	
ATOM	14701	C	SER D			30.525		104.039	1.00	31.31	
ATOM	14702	0	SER D			31.659	84.236	103.846	1.00	31.66	
MOTA	14703	N	GLU D			30.190	85.384	105.116		31.66	
ATOM	14705	CA	GLU I	437	•	31.111		106.232		31.86	
ATOM	14707	CB	GLU D			30.667		107.096		32.13	
MOTA	14710	CG	GLU D			30.690		106.378		33.24	
ATOM	14713	CD	GLU D			30.107		107.222			
ATOM	14714	OE1								34.45	
ATOM	14715	OE2				30.744		107.285		35.95	
						29.024		107.825		34.25	
ATOM	14716	С	GLU D			31.203		107.101		31.52	
ATOM	14717	0	GLU D			32.249	84.077	107.703		31.30	
MOTA	14718	N	GLN D			30.109		107.183	1.00	31.14	•
MOTA	14720	CA	GLN D			30.120	82.299	107.909		30.94	
MOTA	14722	CB	GLN D	438		28.695	81.757	108.135		31.03	
MOTA	14725	CG	GLN D	438		28.607	80.274	108.614		31.22	
ATOM	14728	CD	GLN D			29.016		110.089		31.76	
ATOM	14729	OE1	GLN D			28.244	80 392	111.002		31.04	
ATOM	14730		GLN D			30.225		110.312		29.92	
ATOM	14733	C	GLN D			30.991		107.173			
ATOM	14734	ŏ	GLN D			31.746.		107.173		30.81	
ATOM	14735	N	VAL D							30.62	
MOTA	14737	CA	VAL D			30.906		105.841		30.52	
ATOM	14739	CB	VAL D			31.718	00.257	105.086		30.75	
ATOM	14741	CG1				31.245	80.054	103.598		30.81	
ATOM	14745		VAL D	439		29.738	79.847	103.528		30.29	
ATOM	14749					31.684		102.687		31.23	
		C	VAL D			33.222		105.182		30.44	
ATOM ATOM	14750	0	VAL D			34.065		105.219		29.96	
	14751	N	PHE D			33.534		105.276		30.38	
ATOM	14753	CA	PHE D			34.904		105.518		30.41	
ATOM .	14755	CB	PHE D			35.013		105.270		30.44	
MOTA	14758	CG	PHE D	440		36.393		104.877		30.67	
ATOM	14759	CDI	PHE D	440		36.805		103.550	1.00	30.83	
ATOM	14761		PHE D			38.082		103.176	1.00	31.37	
MOTA	14763	CZ	PHE D			38.962	85.117	104.138	1.00	31.42	
MOTA	14765	CE2	PHE D	440		38.559	85.183	105.471		31.19	
MOTA	14767	CD2	PHE D			37.282	84.782	105.831		30.44	
MOTA	14769	С	PHE D	440		35.401	82.033	106.936		30.45	
MOTA	14770	0	PHE D	440		36.591		107.147		29.95	
MOTA	14771	N	ALA D	441		34.478		107.898		30.73	
MOTA	14773	CA	ALA D	441		34.781		109.285		30.85	
MOTA	14775	CB	ALA D	441		33.634	82.049	110.209		30.85	
MOTA	14779	С	ALA D			35.053		109.441		30.94	
MOTA	14780	0	ALA D			35.767	79.727	110.356		30.83	
MOTA	14781	N	LEU D			34.467	79 315	108.565		31.13	
MOTA	14783	CA	LEU D			34.731	77 873	108.555	1.00	31.13	
ATOM	14785	CB	LEU D			33.725		107.664			
MOTA	14788	CG	LEU D			32.238				31.20	
ATOM	14790		LEU D	442			76 707	108.022		30.88	
ATOM	14794	CDS	LEU D	442		31.386	10.121	106.887		30.89	
ATOM	14798	CDZ				31.890	70.563	109.330		30.24	
ATOM	14799	0	LEU D			36.158		108.071	1.00	31.51	
ATOM	14799		LEU D			36.813		108.564		31.53	
ATOM	14802	N	ARG D			36.628		107.116		31.71	
ATOM	14802	CA	ARG D			37.975	78.262	106.561		31.95	
ATOM		CB	ARG D			38.206	79.267	105.420		31.99	
MION	14807	CG	ARG D	443		37.193	79.183	104.280	1.00	31.97	

ATOM	14810	CD	ARG E	) (	443	37.816	79.070	102.902	1.00 32.22	С
ATOM	14813		ARG I			38.495		102.709	1.00 32.12	N
ATOM	14815		ARG I			38.678	77.178	101.533	1.00 31.98	C
ATOM	14816		ARG I			38.243		100.398	1.00 31.78	N
MOTA	14819		ARG I			39.307	76.008	101.492	1.00 32.13	N
ATOM	14822		ARG I			39.056		107.628	1.00 32.19	С
ATOM	14823	Õ	ARG I			39.853		107.877	1.00 32.10	0
ATOM	14824	N	LEU I			39.072		108.246	1.00 32.28	N
ATOM	14826	CA	LEU I			40.090		109.235	1.00 32.40	C
MOTA	14828	CB	LEU I			41.001		108.692	1.00 32.38	. С
ATOM	14831	CG	LEU I			42.329		108.016	1.00 32.37	С
ATOM	14833		LEU I			42.378		106.562	1.00 32.45	С
ATOM	14837					43.551		108.782	1.00 31.94	С
ATOM	14841	C	LEU !			39.412	80.446	110.529	1.00 32.42	C
ATOM	14842	ō	LEU			38.555		111.067	1.00 32.44	0
ATOM	14843	N	LYS			34.947		107.030	1.00 34.64	N
MOTA	14845	CA	LYS		448	34.907	71.929	105.578	1.00 34.99	С
ATOM	14847	CB	LYS			36.021	70.996	105.093	1.00 35.07	C
ATOM	14850	CG	LYS			36.561	71.335	103.697	1.00 35.46	C
ATOM	14853	CD	LYS	D	448	38.021	70.913	103.507	1.00 35.52	C
ATOM	14856	CE	LYS			38.782		102.613	1.00 35.75	С
ATOM	14859	NZ	LYS			38.790	73.273	103.170	1.00 35.45	N
ATOM	14863	С	LYS	D	448	33.545	71.424	105.087	1.00 35.13	C
ATOM	14864	0	LYS	D	448	32.897	70.608	105.753	1.00 34.83	0
ATOM	14865	N	LEU			33.141	71.901	103.905	1.00 35.26	N
ATOM	14867	CA	LEU	D	449	31.821		103.330	1.00 35.21	С
MOTA	14869	CB	LEU	D	449	31.285		102.618	1.00 35.38	С
ATOM	14872	CG	LEU	D	449	30.930		103.453	1.00 35.63	С
ATOM	14874	CD1	LEU	D	449	32.179		103.879	1.00 35.69	С
ATOM	14878	CD2	LEU	D	449	30.001		102.658	1.00 35.86	C
ATOM	14882	C	LEU	D	449	31.847		102.314	1.00 34.98	C
MOTA	14883	0	LEU	D	449	32.843		101.624	1.00 35.07	0
ATOM	14884	N	PRO	D	450	30.743		102.210	1.00 34.76	Ŋ
MOTA	14885	CA	PRO			30.616		101.228	1.00 34.77	C
ATOM	14887	CB	PRO			29.351		101.682	1.00 34.69	C
ATOM	14890	CG	PRO			28.564		102.379	1.00 34.66	C
MOTA	14893	CD	PRO			29.526		103.025	1.00 34.64	C
MOTA	14896	С	PRO			30.461			1.00 34.79	C Ö
MOTA	14897	0	PRO			30.167			1.00 34.49	
MOTA	14898	N	PRO			30.619			1.00 34.72	N
MOTA	14899	CA			451	30.835			1.00 34.70	C
MOTA	14901	CB	PRO			31.029			1.00 34.62 1.00 34.64	C
ATOM	14904	CG			451	31.349			1.00 34.84	C
MOTA	14907	CD	PRO	ח	451	30.599			1.00 34.77	Č
ATOM	14910	C			451	29.720			1.00 34.68	Ö
ATOM	14911	0			451	30.038			1.00 34.79	N
ATOM	14912	N			452 452	28.460 27.345			1.00 34.75	Č
MOTA	14914	CA			452	26.040				č
MOTA	14916	CB			452	24.684				Č
MOTA	14919	CG CD1	LEU			24.629				č
MOTA	14921		LEU			23.592				č
MOTA					452	27.148				Č
ATOM ATOM		C O			452	26.815				Ö
ATOM		N			453	27.347				Ŋ
ATOM		CA			453	27.282				
ATOM		CB			453	27.171		100.224		
ATOM		CG			453	26.136		100.796		Č
ATOM			LEU			26.089		102.308		
ATOM			LEU			24.790		3 100.175		
MOTA		C			453	28.53				
FILOM	74740	<u>_</u> _							···	

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ATOM	14949	0	LEU	D	453	28.49	92 74.945	. 00 240	1 00 05 00
ATOM	14950	N	SER			29.65			1.00 35.08
ATOM	14952	CA			454	30.97			1.00 35.96
ATOM	14954	СВ			454	32.07			1.00 36.46
ATOM	14957	OG			454				1.00 36.43
ATOM	14959	C				33.36			1.00 36.10
ATOM					454	31.23			1.00 36.90
	14960	0			454	.32.24			1.00 37.02
ATOM	14961	N			455	30.38			1.00 37.37
ATOM	14963	CA			455	30.54			1.00 37.88
ATOM	14965	СВ			455	30.52			1.00 37.89
ATOM	14968	CG	·GLU			31.83		92.452	1.00 37.95
MOTA	14971	CD	GLU	_		31.98			1.00 37.79
ATOM	14972	OE1			455	33.08		90.855	1.00 36.77
MOTA	14973	OE2	GLU	D	455	31.01	.3 75.598		1.00 37.92
ATOM	14974	С	GLU	D	455	29.50	3 75.820		1.00 38.30
ATOM	14975	0	GLU	D	455	29.72			1.00 38.43
ATOM	14976	N	ILE	D	456	28.37			1.00 38.61
MOTA	14978	CA	ILE	D	456	27.34	6 76.730	94.861	1.00 39.00
ATOM	14980	CB			456	25.98		95.311	1.00 39.00
ATOM	14982	CG1	ILE	D		25.53			1.00 39.36
ATOM	14985	CD1			456	24.06			1.00 39.58
MOTA	14989	CG2			456	24.91			1.00 39.38
ATOM	14993	С	TLE	D	456	27.76			
ATOM	14994	ŏ	ILE		456	27.42	2 79.077		1.00 39.21
ATOM	14995	N	TRP		457	28.52	0 77.698		1.00 39.19
ATOM	14997	CA	TRP			28.85			1.00 39.54
ATOM	14999	СВ	TRP			28.28			1.00 39.76
ATOM	15002	CG	TRP		457	26.82	1 78.414		1.00 39.62
ATOM	15002	CD1							1.00 38.92
ATOM	15005	NE1	TRP		457	25.92			1.00 38.56
ATOM	15003	CE2	TRP			24.64			1.00 39.10
ATOM	15007	CD2			457	24.70			1.00 38.98
ATOM	15000	CE3			457	26.05			1.00 38.91
ATOM	15011	CZ3	TRP TRP		457	26.38			1.00 39.11
ATOM	15011				457	25.36		101.582	1.00 39.86
ATOM			TRP		457	24.02			1.00 39.88
ATOM	15015 15017	CZ2			457	23.67			1.00 39.05
		C	TRP		457	30.34		97.909	1.00 40.23
ATOM	15018	0	TRP		457	30.72			1.00 40.26
ATOM	15019	N	ASP			31.17		97.719	1.00 40.77
ATOM	15021	CA	ASP		458	32.62		97.802	1.00 41.23
ATOM	15023	CB	ASP			33.32		98.334	1.00 41.27
ATOM	15026	CG	ASP			34.18		99.564	1.00 41.37
ATOM	15027		ASP			35.42		99.444	1.00 41.88
ATOM	15028	~	ASP	_		33.69		100.692	1.00 40.74
MOTA	15029	C	ASP			33.18		96.438	1.00 41.54
ATOM	15030	0	ASP			34.24		96.015	1.00 41.72
ATOM	15031	N	VAL			32.45	0 79.516	95.756	1.00 41.97
MOTA	15033	CA	VAL			32.97		94.588	1.00 42.46
MOTA	15035	CB	VAL			31.94		93.928	1.00 42.53
MOTA	15037		VAL			32.29	8 81.438	92.446	1.00 42.39
MOTA	15041		VAL			30.47		94.080	1.00 42.29
ATOM	15045	С	VAL			34.19	7 81.015	95.067	1.00 42.82
MOTA	15046	0	VAL			35.25		94.402	1.00 42.59
MOTA	15047	N	ALA			34.02		96.228	1.00 43.00
ATOM	15049	CA	ALA			35.11		96.978	1.00 43.14
MOTA	15051	CB	ALA	D	460	35.81		97.854	1.00 43.11
MOTA	15055	С	ALA	D	460	36.12		96.079	1.00 43.30
MOTA	15056	0	ALA			35.74		95.227	1.00 43.57
MOTA	15057	037	GW3	D	500	13.54		105.884	1.00 16.41
MOTA	15058	C35	GW3	D	500	13.23		104.723	1.00 16.39
ATOM	15059		GW3			12.23	6 69.888	104.451	1.00 15.82
			-					TO3.301	15.62

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ATOM 15060 C34 GM3 D 5000 14.080 71.074 103.567 1.00 17.86 C ATOM 15063 C32 GM3 D 5000 15.021 72.154 104.070 1.00 16.05 C ATOM 15066 C33 GM3 D 5000 16.253 71.826 104.636 1.00 18.02 C ATOM 15066 C33 GM3 D 5000 14.616 73.476 104.054 1.00 15.99 C ATOM 15068 C30 GM3 D 5000 15.423 74.480 104.584 1.00 17.32 C ATOM 15070 C29 GM3 D 500 15.423 74.480 104.587 1.00 17.32 C ATOM 15070 C29 GM3 D 500 17.060 72.823 105.192 1.00 17.58 C ATOM 15073 027 GM3 D 500 18.283 72.474 105.720 1.00 19.56 O ATOM 15071 C25 GM3 D 500 18.283 72.474 105.720 1.00 19.56 O ATOM 15071 C25 GM3 D 500 18.283 72.474 105.720 1.00 19.56 O ATOM 15071 C25 GM3 D 500 18.283 72.474 105.720 1.00 19.56 O ATOM 15071 C25 GM3 D 500 20.478 73.970 108.355 1.00 18.91 1		•		•			
Name	n mow	15060	C34 CW3 D 500	14 080	71 074 103 567	1.00 17.86	С
TOTAL   15064   C33   GW3 D 500							
ATOM   15066   C31 GM3 D 500							
NOM   15068   C30   CW3 D 500   15.423   74.480   104.587   1.00   17.32   C							Č
TATOM   15070   C29   GM3 D 500   16.648   74.153   105.166   1.00   17.58   C							č
NOTE   15072   C28   CM3 D 500   17.060   72.823   105.192   1.00   18.10   C							č
APOM   15073   027 GW3 D 500   18.283   72.474   105.720   1.00   19.56   O							
ADDITION   15074   C26 GW3 D 500							Č
NOW  15077   C25 GW3 D 500	MOTA						0
ADDITION   15080	ATOM	15074					G.
NOTE   15083   NOS   GW3 D   500   21.606   74.885   108.246   1.00   19.97   N	MOTA	15077					
ATOM 15083 NO9 GW3 D 500	MOTA	15080					
15097   15097   15097   15097   15090   23,430   75,263   106,611   1.00   30,42   C   ATOM   15098   C19   GW3 D   500   24,480   75,368   106,611   1.00   35,20   C   ATOM   15090   C23   GW3 D   500   22,720   76,043   105,720   1.00   30,51   C   ATOM   15092   C22   GW3 D   500   23,392   76,905   104,852   1.00   31,39   C   ATOM   15094   C21   GW3 D   500   24,778   77,026   104,837   1.00   33,31   C   ATOM   15096   C20   GW3 D   500   27,070   76,362   150,735   1.00   33,33   C   ATOM   15097   C39   GW3 D   500   27,070   76,362   150,735   1.00   39,23   C   ATOM   15098   F41   GW3 D   500   27,575   76,876   104,610   1.00   41,53   F   ATOM   15009   F40   GW3 D   500   27,575   76,876   104,610   1.00   41,53   F   ATOM   15100   F42   GW3 D   500   27,575   76,876   104,610   1.00   41,53   F   ATOM   15100   F42   GW3 D   500   27,575   76,876   104,610   1.00   41,53   F   ATOM   15101   C08   GW3 D   500   21,717   76,170   108,940   1.00   17,07   C   ATOM   15104   C07   GW3 D   500   20,374   77,962   110,062   1.00   11,02   C   ATOM   15107   C02   GW3 D   500   20,374   77,962   110,062   1.00   11,02   C   ATOM   15113   C05   GW3 D   500   21,426   79,284   11,743   1.00   12,67   C   ATOM   15113   C05   GW3 D   500   20,374   77,962   110,062   1.00   11,02   C   ATOM   15113   C05   GW3 D   500   21,426   79,284   11,743   1.00   12,67   C   ATOM   15113   C05   GW3 D   500   21,426   79,284   11,743   1.00   10,69   C   ATOM   15113   C05   GW3 D   500   21,426   79,284   11,743   1.00   10,69   C   ATOM   15113   C05   GW3 D   500   21,426   79,284   11,743   1.00   10,69   C   ATOM   15113   C05   GW3 D   500   19,072   79,006   11,767   1.00   11,38   C   C   ATOM   15113   C05   GW3 D   500   19,072   79,006   11,767   1.00   11,38   C   C   ATOM   15113   C05   GW3 D   500   19,178   78,464   105,639   1.00   10,99   C   C   ATOM   15113   C05   GW3 D   500   19,178   78,464   105,639   1.00   10,99   C   C   ATOM   151140   C04   GW3 D   500   19,178   78,464   105,639		15083	NO9 GW3 D 500	21.606			N
ATOM 15087 C18 GW3 D 500 23,430 75,263 106,611 1.00 30,42 C ATOM 15088 C19 GW3 D 500 24,890 75,368 106,619 1.00 35,20 C ATOM 15090 C23 GW3 D 500 25,828 74,361 107,749 1.00 47.85 CL ATOM 15090 C23 GW3 D 500 22,720 76,043 105,720 1.00 30,51 C ATOM 15090 C23 GW3 D 500 23,392 76,905 104,852 1.00 31,39 C ATOM 15094 C21 GW3 D 500 24,778 77,026 104,837 1.00 33,11 C ATOM 15094 C21 GW3 D 500 24,778 77,026 104,837 1.00 33,11 C ATOM 15094 C21 GW3 D 500 24,778 77,026 104,837 1.00 33,11 C ATOM 15096 F41 GW3 D 500 27,576 76,275 105,690 1.00 36,39 C ATOM 15098 F41 GW3 D 500 27,576 76,876 104,610 1.00 41,53 F ATOM 15099 F40 GW3 D 500 27,576 76,876 104,610 1.00 41,53 F ATOM 15100 F42 GW3 D 500 27,578 76,876 104,610 1.00 41,53 F ATOM 15101 C08 GW3 D 500 27,578 76,876 104,610 1.00 41,53 F ATOM 15104 C07 GW3 D 500 21,717 76,170 108,940 1.00 17,07 C C ATOM 15104 C07 GW3 D 500 20,374 77,962 110,062 1.00 11,02 C ATOM 15107 C02 GW3 D 500 21,426 79,284 111,743 1.00 12,67 C ATOM 15111 C04 GW3 D 500 21,426 79,284 111,743 1.00 12,67 C ATOM 15113 C05 GW3 D 500 21,426 79,284 111,743 1.00 12,67 C ATOM 15115 C06 GW3 D 500 21,426 79,284 111,743 1.00 12,67 C ATOM 15115 C06 GW3 D 500 20,374 77,962 110,062 1.00 11,02 C ATOM 15115 C06 GW3 D 500 20,374 77,962 110,062 1.00 11,02 C ATOM 15115 C06 GW3 D 500 20,374 77,856 107,634 1.00 11,08 C C ATOM 15115 C06 GW3 D 500 20,374 77,856 107,634 1.00 11,08 C C ATOM 15115 C06 GW3 D 500 20,374 77,856 107,634 1.00 11,08 C C ATOM 15116 C11 GW3 D 500 19,072 79,006 111,767 1.00 11,38 C C ATOM 15116 C11 GW3 D 500 19,178 78,464 105,639 1.00 14,79 C C ATOM 15116 C11 GW3 D 500 19,178 78,464 105,639 1.00 14,79 C C ATOM 15120 C12 GW3 D 500 21,456 79,284 110,774 100 11,08 C C ATOM 15124 C14 GW3 D 500 22,379 79,106 111,767 1.00 11,38 C C ATOM 15124 C14 GW3 D 500 29,374 77,856 107,634 1.00 14,02 C C ATOM 15126 C12 GW3 D 500 19,178 78,464 105,639 1.00 14,79 C C ATOM 15116 C11 GW3 D 500 19,178 78,464 105,639 1.00 14,79 C C ATOM 15116 C11 GW3 D 500 19,178 78,464 105,639 1.00 16,14 C C ATOM 15124 C14 GW3 D 500 29,374 77,856 1	ATOM	15084	C16 GW3 D 500	22.784			С
ATOM 15088 C19 GM3 D 500		15087	C18 GW3 D 500	23.430			
ATOM 15090 C23 GW3 D 500		15088	C19 GW3 D 500	24.890	75.368 106.619	1.00 35.20	
TOT   15090   C23 GM3 D 500   22.720   76.043   105.720   1.00   31.39   C				25.828	74.361 107.749	1.00 47.85	
ATOM 15094 C21 GW3 D 500			C23 GW3 D 500		76.043 105.720	1.00 30.51	C
ATOM 15096 C20 GW3 D 500 24.778 77.026 104.837 1.00 33.311 C ATOM 15096 C20 GW3 D 500 25.567 76.275 105.690 1.00 36.39 C ATOM 15098 F41 GW3 D 500 27.070 76.362 105.735 1.00 39.23 C ATOM 15099 F40 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15099 F40 GW3 D 500 27.575 76.876 104.610 1.00 41.53 F ATOM 15101 C08 GW3 D 500 27.580 75.145 105.918 1.00 39.38 F ATOM 15101 C08 GW3 D 500 27.580 75.145 105.918 1.00 39.38 F ATOM 15104 C07 GW3 D 500 20.438 77.064 108.875 1.00 10.00 17.07 C ATOM 15106 C01 GW3 D 500 20.438 77.064 108.875 1.00 10.36 C ATOM 15107 C02 GW3 D 500 21.519 78.494 110.062 1.00 11.02 C ATOM 15107 C02 GW3 D 500 21.519 78.494 110.615 1.00 10.22 C ATOM 15111 C04 GW3 D 500 21.426 79.284 111.743 1.00 10.69 C ATOM 15113 C05 GW3 D 500 21.426 79.284 111.743 1.00 10.69 C ATOM 15115 C06 GW3 D 500 21.977 79.006 111.067 1.00 11.38 C ATOM 15115 C06 GW3 D 500 19.072 79.006 111.767 1.00 11.38 C ATOM 15118 C11 GW3 D 500 20.374 77.856 107.634 1.00 14.02 C ATOM 15118 C11 GW3 D 500 20.374 77.856 107.634 1.00 14.02 C ATOM 15118 C11 GW3 D 500 20.374 77.856 107.634 1.00 14.02 C ATOM 15120 C12 GW3 D 500 19.151 78.212 110.639 1.00 9.62 C ATOM 15122 C13 GW3 D 500 19.152 77.742 106.835 1.00 14.79 C ATOM 15126 C15 GW3 D 500 20.230 79.295 105.247 1.00 15.98 C ATOM 15126 C14 GW3 D 500 20.230 79.295 105.247 1.00 15.70 C ATOM 15126 C15 GW3 D 500 20.230 79.295 105.247 1.00 15.70 C ATOM 15137 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15130 OH2 HOH X 2 4.938 10.777 59.364 1.00 37.13 O ATOM 15134 OH2 HOH X 3 18.790 0.840 49.638 1.00 22.14 O ATOM 15134 OH2 HOH X 1 18.790 0.840 49.638 1.00 37.13 O ATOM 15134 OH2 HOH X 1 18.790 0.840 49.638 1.00 37.13 O ATOM 15134 OH2 HOH X 1 18.790 0.840 49.638 1.00 22.14 O ATOM 15134 OH2 HOH X 1 12.20.659 102.066 1.00 37.15 O ATOM 15134 OH2 HOH X 1 12.20.659 102.066 1.00 37.15 O ATOM 15137 OH2 HOH X 1 2.20.659 102.067 106.139 1.00 26.46 O ATOM 15137 OH2 HOH X 1 1 2.20.659 102.067 106.139 1.00 26.46 O ATOM 15143 OH2 HOH X 1 1 2.20.659 102.067 106.139 1.00 26.46 O ATOM 151540 OH2 HOH X 1 1 2.2					76.905 104.852	1.00 31.39	C
ATOM 15096 C20 CW3 D 500						1.00 33.11	· C
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ATOM 15461 OH2 HOH X 111 20.449 4.213 42.272 1.00 35.49  ATOM 15461 OH2 HOH X 1112 37.312 38.390 53.133 1.00 51.36  ATOM 15464 OH2 HOH X 113 19.000 10.393 72.193 1.00 50.84  ATOM 15467 OH2 HOH X 114 17.903 84.774 91.200 1.00 60.01  ATOM 15470 OH2 HOH X 115 18.055 -1.585 39.255 1.00 56.00  ATOM 15473 OH2 HOH X 116 3.996 6.993 60.999 1.00 49.86  ATOM 15476 OH2 HOH X 117 20.271 10.535 30.631 1.00 42.61  ATOM 15479 OH2 HOH X 118 11.263 -9.614 71.116 1.00 42.90  ATOM 15482 OH2 HOH X 119 -2.695 12.950 57.487 1.00 37.29  ATOM 15488 OH2 HOH X 120 29.885 -23.535 52.934 1.00 77.91  ATOM 15494 OH2 HOH X 121 -2.616 7.551 45.678 1.00 47.99  ATOM 15494 OH2 HOH X 122 -2.824 10.741 58.817 1.00 47.99  ATOM 15495 OH2 HOH X 123 26.639 111.044 114.619 1.00 57.82  ATOM 15503 OH2 HOH X 125 17.235 127.107 106.446 1.00 57.17  ATOM 15500 OH2 HOH X 126 21.952 2.395 44.236 1.00 42.93  ATOM 15500 OH2 HOH X 126 21.952 2.395 44.236 1.00 42.93  ATOM 15500 OH2 HOH X 127 9.277 74.512 114.665 1.00 48.97  ATOM 15512 OH2 HOH X 129 1.510 120.767 105.909 1.00 50.36  ATOM 15515 OH2 HOH X 130 43.242 6.582 58.231 1.00 62.99  ATOM 15521 OH2 HOH X 133 39.761 32.790 49.685 1.00 50.24  ATOM 15523 OH2 HOH X 133 39.761 32.790 49.685 1.00 50.24  ATOM 15533 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25  ATOM 15533 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25  ATOM 15530 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25  ATOM 15530 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25  ATOM 15530 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25  ATOM 15530 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25  ATOM 15530 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14  ATOM 15540 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14  ATOM 15540 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14  ATOM 15540 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14  ATOM 15540 OH2 HOH X 141 15.999 19.969 68.679 1.00 55.84  ATOM 15540 OH2 HOH X 144 15.999 19.969 68.679 1.00 59.59  ATOM 155540 OH2 HOH X 144 15.999 19.969 68.679 10.00 59.59	ATOM						13.380						0
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ATOM 15470 OH2 HOH X 115	ATOM	15467	OH2	нон	Х	114							
ATOM 15473 OH2 HOH X 116 3.996 6.993 60.999 1.00 49.86 ATOM 15476 OH2 HOH X 117 20.271 10.535 30.631 1.00 42.61 ATOM 15479 OH2 HOH X 118 11.263 -9.614 71.116 1.00 42.90 ATOM 15482 OH2 HOH X 119 -2.695 12.950 57.487 1.00 37.29 ATOM 15485 OH2 HOH X 120 29.885 -23.535 52.934 1.00 77.91 ATOM 15486 OH2 HOH X 121 -2.616 7.551 45.678 1.00 47.99 ATOM 15491 OH2 HOH X 122 -2.824 10.741 58.817 1.00 42.09 ATOM 15491 OH2 HOH X 123 26.639 111.044 114.619 1.00 57.82 ATOM 15494 OH2 HOH X 125 17.235 127.107 106.446 1.00 53.73 ATOM 15500 OH2 HOH X 125 17.235 127.107 106.446 1.00 53.73 ATOM 15500 OH2 HOH X 126 21.952 2.395 44.236 1.00 42.93 ATOM 15500 OH2 HOH X 128 17.683 78.291 123.117 1.00 48.65 ATOM 15515 OH2 HOH X 129 1.510 120.767 105.909 1.00 50.36 ATOM 15515 OH2 HOH X 130 43.242 61.390 105.392 1.00 59.52 ATOM 15524 OH2 HOH X 131 15.242 61.390 105.392 1.00 59.52 ATOM 15527 OH2 HOH X 133 39.761 32.790 49.665 1.00 50.24 ATOM 15533 OH2 HOH X 134 5.502 102.442 113.079 1.00 56.11 ATOM 15533 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25 ATOM 15533 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25 ATOM 15534 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15535 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25 ATOM 15533 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15534 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15545 OH2 HOH X 134 5.502 102.442 113.079 1.00 54.12 ATOM 15554 OH2 HOH X 144 5.99 19.969 68.679 1.00 59.59 OH2 HOH X 144 5.99 19.969 68.679 1.00 59.59 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 OH2 HOH X 144 50.125 HOH X 143 4.115 13.818 66.067 1.00 59.59 OH2 HOH X	MOTA	15470	OH2	нон	Х	115							0
ATOM 15476 OH2 HOH X 117 20.271 10.535 30.631 1.00 42.61 ATOM 15482 OH2 HOH X 118 11.263 -9.614 71.116 1.00 42.90 ATOM 15482 OH2 HOH X 119 -2.695 12.950 57.487 1.00 37.29 ATOM 15485 OH2 HOH X 120 29.885 -23.535 52.934 1.00 77.91 ATOM 15488 OH2 HOH X 121 -2.616 7.551 45.678 1.00 47.99 ATOM 15491 OH2 HOH X 122 -2.824 10.741 58.817 1.00 42.09 ATOM 15494 OH2 HOH X 123 26.639 111.044 114.619 1.00 57.82 ATOM 155494 OH2 HOH X 124 16.140 88.966 97.087 1.00 57.17 ATOM 15503 OH2 HOH X 125 17.235 127.107 106.446 1.00 53.73 GATOM 15503 OH2 HOH X 126 21.952 2.3954 44.236 1.00 42.93 ATOM 15506 OH2 HOH X 127 9.277 74.512 114.665 1.00 48.97 ATOM 15510 OH2 HOH X 128 17.683 78.291 123.117 1.00 48.65 ATOM 15515 OH2 HOH X 130 43.242 6.582 58.231 1.00 62.99 ATOM 15524 OH2 HOH X 131 15.242 61.390 105.392 1.00 59.52 ATOM 15524 OH2 HOH X 132 -7.813 16.881 54.110 1.00 54.24 ATOM 15533 OH2 HOH X 134 5.502 102.442 113.079 1.00 54.03 ATOM 15536 OH2 HOH X 134 5.502 102.442 113.079 1.00 54.03 ATOM 15536 OH2 HOH X 134 5.502 102.442 113.079 1.00 54.03 ATOM 15524 OH2 HOH X 133 39.761 32.790 49.685 1.00 50.24 ATOM 15530 OH2 HOH X 135 5.245 83.800 107.181 1.00 56.11 ATOM 15533 OH2 HOH X 135 9.888 -10.585 68.838 1.00 62.25 ATOM 15536 OH2 HOH X 137 18.053 89.757 110.269 1.00 57.84 ATOM 15535 OH2 HOH X 137 18.053 89.757 110.269 1.00 57.84 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15545 OH2 HOH X 139 2.434 9.115 59.663 1.00 48.87 ATOM 15554 OH2 HOH X 139 2.434 9.115 59.663 1.00 61.08 ATOM 15555 OH2 HOH X 140 29.074 7.062 34.979 1.00 54.12 ATOM 15555 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71 ATOM 15557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 OH2 HOH X 144 115.999 19.969 68.679 1.00 59.59 OH2 HOH X 144 115.999 19.969 68.679 1.00 59.59 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71	ATOM	15473											0
ATOM 15479 OH2 HOH X 118	MOTA	15476	OH2	HOH	Х	117							0
ATOM 15482 OH2 HOH X 119 ATOM 15485 OH2 HOH X 120 29.885 -23.535 52.934 1.00 77.91 ATOM 15488 OH2 HOH X 121 -2.616 7.551 45.678 1.00 47.99 ATOM 15491 OH2 HOH X 122 -2.824 10.741 58.817 1.00 42.09 ATOM 15494 OH2 HOH X 123 26.639 111.044 114.619 1.00 57.82 ATOM 15590 OH2 HOH X 125 17.235 127.107 106.446 1.00 53.73 ATOM 15503 OH2 HOH X 126 21.952 2.395 44.236 1.00 42.93 ATOM 15503 OH2 HOH X 127 9.277 74.512 114.665 1.00 48.97 ATOM 15506 OH2 HOH X 128 17.683 78.291 123.117 1.00 48.65 ATOM 15512 OH2 HOH X 129 1.510 120.767 105.909 1.00 50.36 ATOM 15515 OH2 HOH X 130 43.242 6.582 58.231 1.00 62.99 ATOM 15515 OH2 HOH X 131 15.242 61.390 105.392 1.00 59.52 ATOM 15524 OH2 HOH X 133 39.761 32.790 49.685 1.00 54.24 ATOM 15533 OH2 HOH X 134 5.502 102.442 113.079 1.00 54.03 ATOM 15533 OH2 HOH X 136 9.888 10.056.24 ATOM 15533 OH2 HOH X 137 18.053 89.757 110.269 1.00 57.84 ATOM 15534 OH2 HOH X 137 18.053 89.757 110.269 1.00 57.84 ATOM 15535 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15545 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15545 OH2 HOH X 131 15.999 19.969 68.679 1.00 54.12 ATOM 155557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 155557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 155557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 155557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 15557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 15557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 15557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 15557 OH2 HOH X 141 15.999 19.969 68.679 1.00 59.59 ATOM 15557 OH2 HOH X 141 15.599 19.969 68.679 1.00 59.59	ATOM	15479	OH2	HOH	Х	118				1 00	42 90		_
ATOM 15485 OH2 HOH X 120	MOTA	15482	OH2	HOH	Х	119				1.00	37 29		0
ATOM 15488 OH2 HOH X 121		15485	OH2	HOH	Х	120							0
ATOM 15491 OH2 HOH X 122			OH2	HOH	Х	121	-2.616						0
ATOM 15494 OH2 HOH X 123							-2.824	10.741	58.817				0
ATOM 15497 OH2 HOH X 124 16.140 88.966 97.087 1.00 57.17 17 105.00 OH2 HOH X 125 17.235 127.107 106.446 1.00 53.73 17 17 17 106.146 1.00 53.73 17 17 17 17 17 17 17 17 17 17 17 17 17								111.044	114.619				Ö
ATOM 15500 OH2 HOH X 125 17.235 127.107 106.446 1.00 53.73 ATOM 15503 OH2 HOH X 126 21.952 2.395 44.236 1.00 42.93 ATOM 15506 OH2 HOH X 127 9.277 74.512 114.665 1.00 48.97 ATOM 15509 OH2 HOH X 128 17.683 78.291 123.117 1.00 48.65 ATOM 15512 OH2 HOH X 130 43.242 6.582 58.231 1.00 62.99 ATOM 15515 OH2 HOH X 131 15.242 61.390 105.392 1.00 59.52 ATOM 15518 OH2 HOH X 131 15.242 61.390 105.392 1.00 59.52 ATOM 15521 OH2 HOH X 132 -7.813 16.881 54.110 1.00 54.24 ATOM 15524 OH2 HOH X 133 39.761 32.790 49.685 1.00 50.24 ATOM 15527 OH2 HOH X 134 5.502 102.442 113.079 1.00 54.03 ATOM 15530 OH2 HOH X 135 5.245 83.800 107.181 1.00 56.11 ATOM 15533 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25 ATOM 15539 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 ATOM 15540 OH2 HOH X 139 2.434 9.115 59.663 1.00 48.87 ATOM 15554 OH2 HOH X 140 29.074 7.062 34.979 1.00 61.08 ATOM 15555 OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12 ATOM 15554 OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12 ATOM 15555 OH2 HOH X 141 17.165 68.472 1.00 60.71 ATOM 15555 OH2 HOH X 141 17.165 68.472 1.00 60.71 ATOM 15555 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36							16.140	88.966	97.087				Ö
ATOM 15503 OH2 HOH X 126  ATOM 15506 OH2 HOH X 127  ATOM 15509 OH2 HOH X 128  ATOM 15512 OH2 HOH X 129  ATOM 15515 OH2 HOH X 130  ATOM 15515 OH2 HOH X 131  ATOM 15518 OH2 HOH X 131  ATOM 15521 OH2 HOH X 131  ATOM 15524 OH2 HOH X 132  ATOM 15527 OH2 HOH X 133  ATOM 15530 OH2 HOH X 134  ATOM 15530 OH2 HOH X 135  ATOM 15530 OH2 HOH X 136  ATOM 15530 OH2 HOH X 137  ATOM 15530 OH2 HOH X 136  ATOM 15530 OH2 HOH X 137  ATOM 15530 OH2 HOH X 136  ATOM 15530 OH2 HOH X 137  ATOM 15530 OH2 HOH X 139  ATOM 15530 OH2 HOH X 139  ATOM 15530 OH2 HOH X 137  ATOM 15530 OH2 HOH X 138  ATOM 15530 OH2 HOH X 139  ATOM 15530 OH2 HOH X 139  ATOM 15540 OH2 HOH X 139  ATOM 15540 OH2 HOH X 140  ATOM 15545 OH2 HOH X 140  ATOM 15554 OH2 HOH X 141  ATOM 155550 OH2 HOH X 141  ATOM 155550 OH2 HOH X 142  ATOM 155550 OH2 HOH X 143  ATOM 155550 OH2 HOH X 144  ATOM 155551 OH2 HOH X 144  ATOM 155550 OH2 HOH X 143  ATOM 155550 OH2 HOH X 144  ATOM 155550 OH2 HOH X 143  ATOM 155550 OH2 HOH X 144  ATOM 155551 OH2 HOH X 143  ATOM 155550 OH2 HOH X 144  ATOM 155550 OH2 HOH X 144  ATOM 155550 OH2 HOH X 144  ATOM 155550 OH2 HOH X 143  ATOM 155550 OH2 HOH X 143  ATOM 155550 OH2 HOH X 143  ATOM 15550 OH2 HOH X 144  ATOM 15550 OH2 HOH X 144  ATOM 15550 OH2 HOH X 145  ATOM 15500 OH2 HOH X 145  ATOM 15500							17.235	127.107	106.446				ŏ
ATOM 15506 OH2 HOH X 127  ATOM 15509 OH2 HOH X 128  ATOM 15512 OH2 HOH X 129  ATOM 15515 OH2 HOH X 130  ATOM 15515 OH2 HOH X 131  ATOM 15518 OH2 HOH X 131  ATOM 15521 OH2 HOH X 132  ATOM 15524 OH2 HOH X 133  ATOM 15527 OH2 HOH X 134  ATOM 15530 OH2 HOH X 135  ATOM 15530 OH2 HOH X 136  ATOM 15533 OH2 HOH X 136  ATOM 15534 OH2 HOH X 137  ATOM 15535 OH2 HOH X 137  ATOM 15536 OH2 HOH X 137  ATOM 15537 OH2 HOH X 137  ATOM 15538 OH2 HOH X 137  ATOM 15539 OH2 HOH X 137  ATOM 15539 OH2 HOH X 137  ATOM 15539 OH2 HOH X 139  ATOM 15540 OH2 HOH X 139  ATOM 15554 OH2 HOH X 140  ATOM 15555 OH2 HOH X 141  ATOM 15555 OH2 HOH X 144  ATOM 15557 OH2 HOH X 144							21.952	2.395	44.236				0
ATOM 15512 OH2 HOH X 128							9.277		114.665				0
ATOM 15512 OH2 HOH X 129								78.291	123.117				ŏ
ATOM 15515 OH2 HOH X 130						129	1.510	120.767					Ö
ATOM 15518 OH2 HOH X 131			OH2	нон	X	130	43.242	6.582	58.231				Ö
ATOM 15521 OH2 HOH X 132			OH2	HOH	X	131			105.392				ŏ
ATOM 15524 OH2 HOH X 133 39.761 32.790 49.685 1.00 50.24 5.502 102.442 113.079 1.00 54.03 67 5.245 83.800 107.181 1.00 56.11 6.11 6.11 6.11 6.11 6.11 6.11 6.1								16.881	54.110	1.00	54.24		Ö
ATOM 15527 OH2 HOH X 134 5.502 102.442 113.079 1.00 54.03 7 1.00 100 100 100 100 100 100 100 100 10								32.790	49.685				Ö
ATOM 15530 OH2 HOH X 135 5.245 83.800 107.181 1.00 56.11 7.245 83.800 107.181 1.00 56.11 7.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 8.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.800 107.181 1.00 56.11 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.245 83.							5.502	102.442	113.079				ŏ
ATOM 15533 OH2 HOH X 136 9.888 -10.585 68.838 1.00 62.25 ATOM 15536 OH2 HOH X 137 18.053 89.757 110.269 1.00 57.84 CATOM 15539 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 CATOM 15542 OH2 HOH X 139 2.434 9.115 59.663 1.00 48.87 ATOM 15545 OH2 HOH X 140 29.074 7.062 34.979 1.00 61.08 ATOM 15548 OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12 ATOM 15551 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71 ATOM 15557 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 ATOM 15557 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36							5.245	83.800	107.181	1.00	56.11		Ö
ATOM 15536 OH2 HOH X 137 18.053 89.757 110.269 1.00 57.84 CATOM 15539 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 CATOM 15545 OH2 HOH X 140 29.074 7.062 34.979 1.00 61.08 ATOM 15548 OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12 ATOM 15551 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71 ATOM 15554 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 ATOM 15557 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36			OH2	нон	X	136		-10.585	68.838				o
ATOM 15539 OH2 HOH X 138 20.049 122.164 106.270 1.00 69.14 CATOM 15542 OH2 HOH X 139 2.434 9.115 59.663 1.00 48.87 CATOM 15545 OH2 HOH X 140 29.074 7.062 34.979 1.00 61.08 ATOM 15554 OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12 ATOM 15554 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71 ATOM 15557 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 ATOM 15550 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36							18.053	89.757	110.269				Ö
ATOM 15542 OH2 HOH X 139 2.434 9.115 59.663 1.00 48.87  ATOM 15545 OH2 HOH X 140 29.074 7.062 34.979 1.00 61.08  ATOM 15548 OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12  ATOM 15551 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71  ATOM 15554 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59  ATOM 15557 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36							20.049	122.164	106.270	1.00	69.14		0
ATOM 15545 OH2 HOH X 140 29.074 7.062 34.979 1.00 61.08 CONTROL STATE OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12 CONTROL STATE OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71 CONTROL STATE OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 CONTROL STATE OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36			OH2	нон	X	139	2.434	9.115					Ö
ATOM 15548 OH2 HOH X 141 15.999 19.969 68.679 1.00 54.12 CATOM 15551 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71 ATOM 15554 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 ATOM 15557 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36							29.074						ŏ
ATOM 15551 OH2 HOH X 142 7.714 17.165 68.472 1.00 60.71 ATOM 15554 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 ATOM 15557 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36							15.999	19.969					ő
ATOM 15554 OH2 HOH X 143 4.115 13.818 66.067 1.00 59.59 ATOM 15557 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36													ŏ
ATOM 15557 OH2 HOH X 144 50.125 11.901 55.483 1.00 48.36			OH2	НОН	X	143	4.115						Ö
												•	ŏ
	ATOM	15560	OH2	нон	X	145							0
										· - <del>-</del>			•

7		-										
MOTA	15563	OH2	нон	Х	146	2.986	-16.653	58.015	1.00	54.32	O	١.
MOTA	15566	OH2	HOH	X	147					47.73		
MOTA	15569	OH2	HOH	X	148	30.902	-8.372			57.51	-	
ATOM	15572	OH2	нон	Х	149	21.360					0	
MOTA	15575		нон		_	31.566	0.933	61.366		47.84	0	
ATOM	15578		нон			25.717	98.206				0	
ATOM	15581				152		0.340	77.562		56.66	0	
ATOM	15584		НОН			47.547				58.47	0	
ATOM	15587		НОН				-0.197			58.77	0	,
						13.581	28.505			55.78	0	,
ATOM	15590		НОН			15.868	67.635	118.108	1.00	63.74	. 0	,
ATOM	15593		нон			6.738	99.064	109.444	1.00	66.64	Ö	•
ATOM.	15596	OH2	HOH	X	157 ·	39.958	7.874	54.949		63.85	ŏ	
. ATOM	15599	OH2	нон	X	158	7.403		109.576		55.77	0	
MOTA	15602	OH2	нон	Х	159		12.892	33.667		41.75	_	
ATOM	15605		нон			28.386	37.421			50.20	0	
ATOM	15608		нон			21.402	14.875			55.99	0	
MOTA	15611		НОН			48.282	7.498			64.22		0
ATOM	15614		НОН			6.367	7.912	33.782			-	
ATOM	15617		НОН			22.722				55.31	0	
ATOM	15620		нон					126.079		56.29	. 0	Į.
						8.660		117.316		39.82	0	
ATOM	15623		НОН			39.448	1.815	50.281	1.00	52.32	0	,
MOTA	15626	OH2	нон	Х	167	62.599	23.311	47.584	1.00	61.70	Ō	
END			•								Ŭ	

#### Claims

- 1. A crystal comprising at least 150 amino acid residues of the LXRβ ligand binding domain.
- 2. A crystal according to claim 1 comprising the amino acid sequence from Leu-220 to Glu-461 of a human LXRβ shown in Figure 5 or an amino acid sequence having at least 95% identity with the sequence and which encodes for a LXRβ ligand binding domain.
- 3. A crystal according to any one of claims 1 to 2 comprising the entire LXR $\beta$  ligand binding domain.
- 4. A crystal according to any preceding claim produced using a sequence including helix 12 of LXRβ.
- 5. A crystal according to any one of claims 1 to 4 usable in X-ray crystallography.
- 6. A crystal according to any one of claims 1 to 5 including a ligand bound to LXR $\beta$  or a portion thereof.
- 7. A crystal according to claim 6 in which the ligand is T0901317, GW3965 or any other ligand that binds with reasonable affinity (IC50<1000 nM to the internal LXR $\beta$  binding cavity).
- 8. A crystal of LXR $\beta$  LBD belonging to the space group P2₁2₁2₁ and having the unit cell dimensions a = 59 + -3 Å, b = 100 + -5 Å, c = 176 + -3 Å,  $\alpha = \beta = \gamma = 90^{\circ}$ .
- 9. A crystal of LXR $\beta$  LBD belonging to the space group P6₁22 and having the unit cell dimensions a=59 +/-3 Å b= 59+/-3 Å c=294 +/-3 Å ,  $\alpha$  =  $\beta$  = 90°,  $\gamma$ =120°.

- 3
- 10. A crystal of LXR $\beta$  LBD in complex with a coactivator peptide (TIF2 NR-box 1) belonging to the space group P2₁2₁2 and having the unit cell dimensions a= 89+/-3, b= 91+/-3, c=131+/-3 .  $\alpha = \beta = \gamma = 90^{\circ}$ .
- 11. A crystal according to any of claims 1 to 10 having a resolution determined by X-ray crystallography of better than 3.6 Å.
- 12. A crystal according to claim 11 having a resolution determined by X-ray crystallography of better than 2.9 Å.
- 13. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
  - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
  - (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
  - (c) detecting the binding of the potential ligand for the ligand binding domain.
- 14. A method according to claim 13, wherein a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXR $\beta$  than that of a standard ligand for the ligand binding domain of LXR $\beta$ .
- 15. The method of claim 14 wherein the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.
- 16. The method of any one of claims 13 to 15 further comprising:
  - (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXRβ and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;

- (e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;
- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as such a drug when it inhibits or enhances the expression of protein synthesis in the cell.
- 17. The method of claim 16 further comprising an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.
- 18. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
  - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
  - (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXRβ; and
  - (c) detecting a measure of a cDNA or protein expression; wherein a potential ligand that regulates the expression of protein expression is selected as a potential drug.
- 19. The method of claim 18 wherein said protein expression is an *in vitro* protein expression assay.

- **T**
- 20. A machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure according to any one of claims 1 to 12 or a homologue of said crystal structure.
- 21. A method for designing a potential LXRβ ligand for the treatment of diseases modulated by the natural LXRβ ligand, the method comprising the steps of:
  - (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXRβ receptors identified from a machine-readable storage medium according to claim 20; and
  - (b) analyzing the results of the fitting operation to predict the association between the potential LXR $\beta$  ligand and the binding site.
- 22. Method according to claim 21, additionally providing the steps of:
  - (c) synthesizing the potential LXR $\beta$  ligand based on the crystal structure of the said receptor; and
  - (d) assaying the LXR $\beta$  ligand binding response in a LXR $\beta$  animal model cell line by measuring one or more *in vivo* effects including but not limited to changes in lipoprotein profile, changes in serum or tissue triglyceride levels, changes in serum or tissue cholesterol levels, changes in serum glucose levels, changes in atherosclerotic lesion size indicating that the LXR $\beta$  ligand may be used for treatment of diseases modulated by LXR $\beta$ .
- 23. A method according to claim 21, additionally providing the steps of:
  - (e) synthesising the potential LXR $\beta$  ligand based on the crystal structure of said receptor; and
  - (f) assaying the LXR $\beta$  ligand binding response in a LXR $\beta$  reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXR $\beta$  ligand may be used for treatment of diseases modulated by LXR $\beta$ .

- 24. A method according to any one of claims 21 to 23, additionally comprising the steps of modifying the potential LXRβ ligand so that it:
  - (a) sterically displaces helix-12; or
  - (b) disrupts the dimerisation surface.
- 25. A method according to any one of claims 21 to 24, wherein said a potential LXR $\beta$  ligand is a LXR $\beta$  antagonist.
- 26. A method according to any one of claims 21 to 24, wherein said potential LXRβ ligand is an agonist.
- 27. A method according to any one of claims 21 to 24, wherein said potential LXRβ ligand is a selective modulator.
- 28. A method of designing a ligand which will bind to LXRβ comprising comparing the shape of a compound with the shape of the ligand-binding cavity of LXRβ as obtained from a crystal according to any one of claims 1 to 12, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.
- 29. A crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457, according to the co-ordinate tables or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5Å.
- 30.—A-crystallisable composition comprising at least 150 amino acid residues of the LXRβ ligand-binding domain.



- 31. An isolated protein consisting essentially of the amino acid sequence shown from amino acid 220 to amino acid 461 in Figure 5a or the sequence shown in Figure 5b.
- 32. An isolated protein according to claim 31, additionally comprising a tag, such as a his-tag.
- 33. A vector, such as a plasmid, containing a nucleic acid molecule encoding a protein consisting of the amino acid sequence shown from 220 to 461 in Figure 5 or the sequence shown in Figure 5b.
- . 34. A host cell containing a vector according to claim 33.
- 35. An isolated protein having an amino acid sequence identical to the amino acid sequence used in a crystal according to any one of claims 1 to 2.
- 36. A computer for producing a three-dimensional representation of:
  - (a) a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by the structure coordinates of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
  - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
  - (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354,

His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables;

- (ii) a working memory of storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computer-readable data storage medium for processing and computer-machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.
- 37. The computer according to claim 36 wherein said computer produces a three-dimensional representation of:
  - (a) a molecule or molecular complex defined by structure coordinates of all of the LXRβ ligand binding domain amino acid residues set forth in the co-ordinate tables; or
  - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in the co-ordinate tables.
- 38. A method for determining the three-dimensional structure of a complex between LXRβ and a ligand therefore, which comprises:
  - (a) obtaining x-ray diffraction data for crystals of the complex as defined in any one of claims 1 to 12; and
  - (b) utilizing a set of atomic coordinates as defined in claim 29 or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.
- 39. A method for determining a modelling structure of a protein containing LXRβ or a complex of said protein and a ligand, which method comprises:



- (a) providing a three-dimensional structure defined by a set of coordinates as defined in claim 29, or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR $\beta$  using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

#### **ABSTRACT**

### LXRβ Crystals

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the Liver X receptor and ligands for this receptor, and in particular to crystalline Liver X receptor beta (LXR $\beta$ ) and to methods of identifying ligands utilizing LXR $\beta$ , as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXR $\beta$  modulating or binding activity.

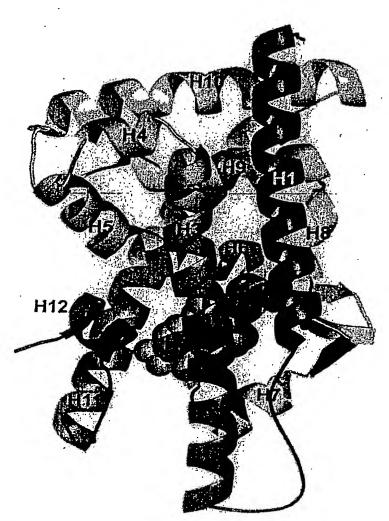


Figure 1

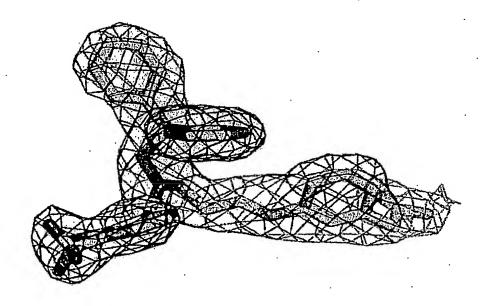


Figure 2

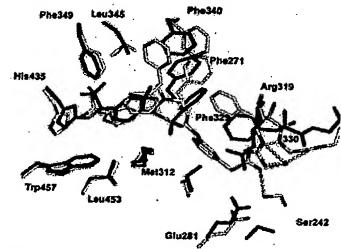


Figure 3

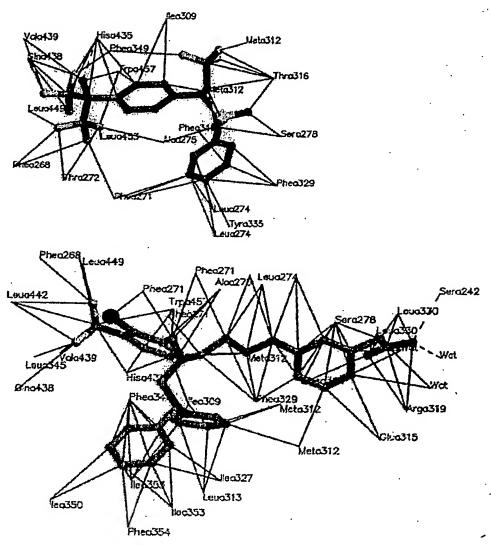


Figure 4.

#### Figure 5

- 1 msspttssld tplpgngppq pgapssptv keegpepwpg gpdpdvpgtd eassacstdw 61 vipdpeepe rkrkkgpapk mlghelcrvc gdkasgfhyn vlscegckgf frrsvvrgga 121 rryacrgggt cqmdafmrrk cqqcrlrkck eagmreqcvl seeqirkkki rkqqqqesqs 181 qsqspvgpqg ssssasgpga spggseagsq gsgegegvql taaqelmiqq lvaaqlqcnk 241 rsfsdqpkvt pwplgadpqs rdarqqrfah ftelaiisvq eivdfakqvp gflqlgredq 301 iallkastie imlletarry nhetecitfl kdftyskddf hraglqvefi npifefsram 361 rrlglddaey alliainifs adrpnvqepg rvealqqpyv eallsytrik rpqdqlrfpr 421 mlmklvslrt lssvhseqvf alrlqdkklp pllseiwdvh e
- (b) 209 gshmgegegv qltaaqelmi qqlvaaqlqcnk
   241 rsfsdqpkvt pwplgadpqs rdarqqrfah ftelaiisvq eivdfakqvp gflqlgredq
   301 iallkastie imlletarry nhetecitfl kdftyskddf hraglqvefi npifefsram
   361 rrlglddaey alliainifs adrpnvqepg rvealqqpyv eallsytrik rpqdql

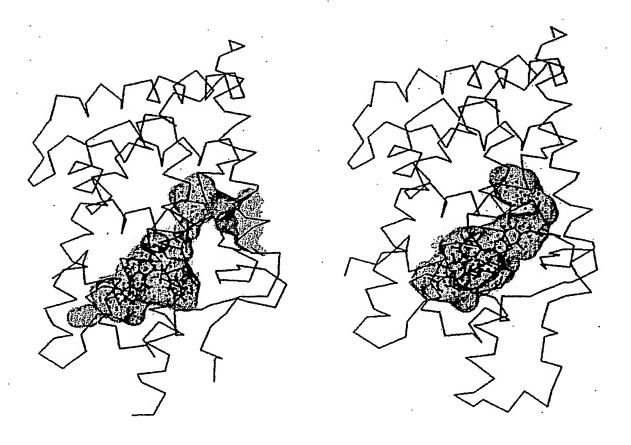


Figure 6

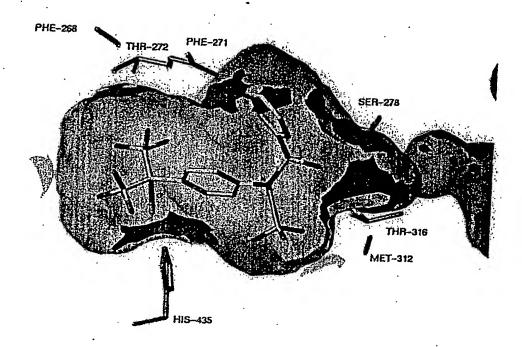


Figure 7

PCT Application PCT/IB2003/006412



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